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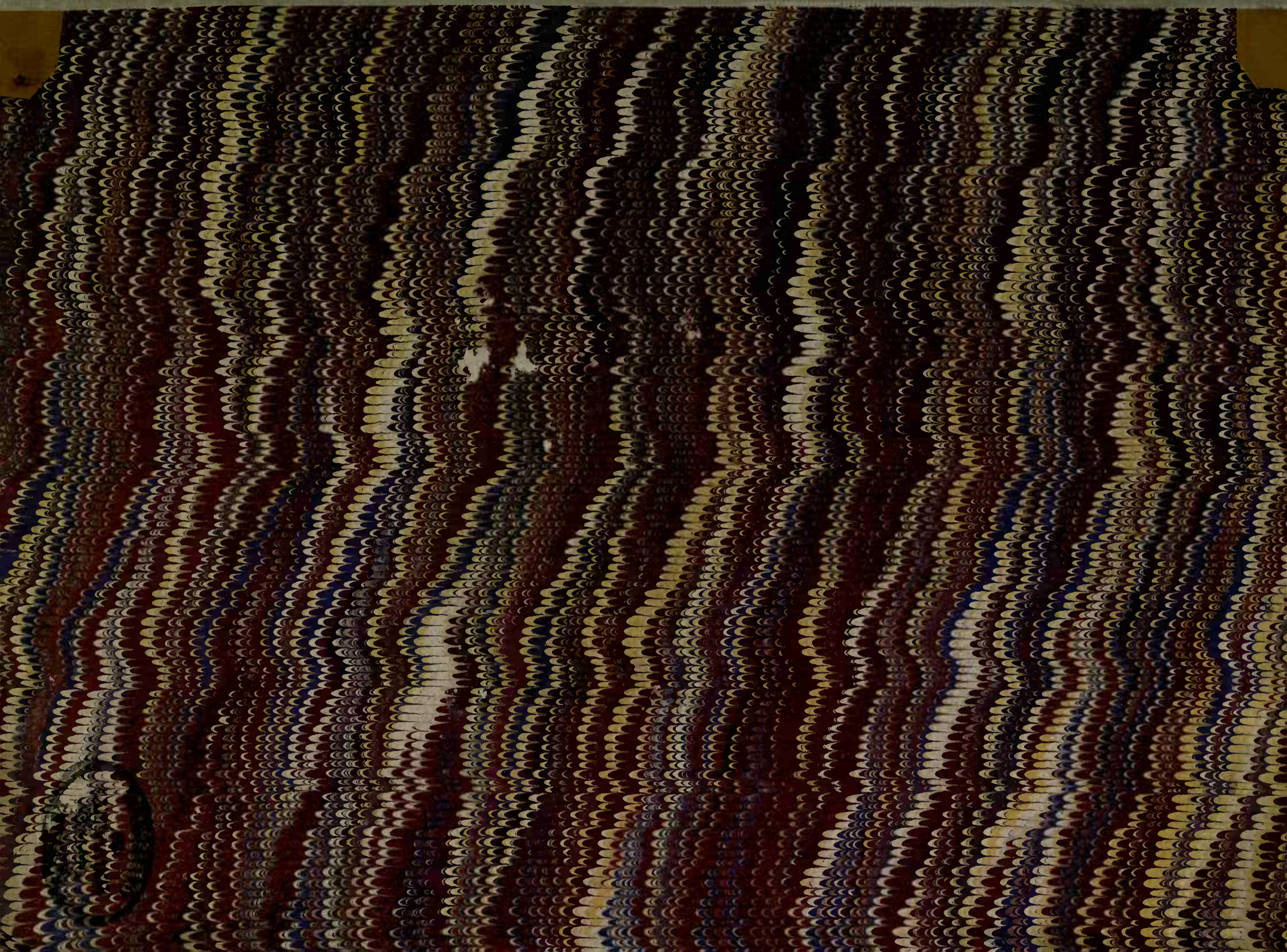
MEAN DECLINATIONS

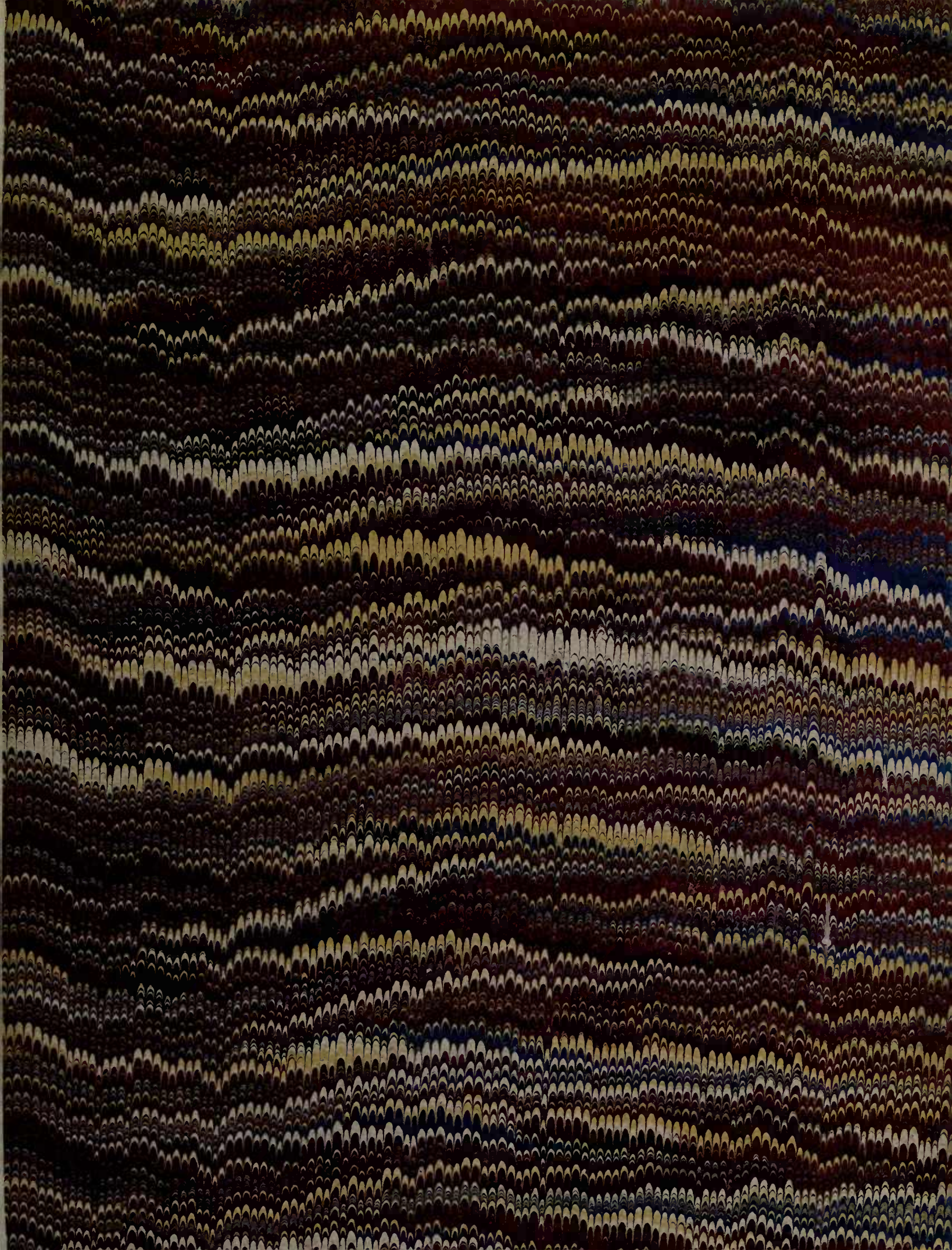
OF

981 STARS,

FOR

JANUARY 1, 1875.





U.S. Lake Survey

Gen. Davidson
Decem. 7. 1875
from General C. B. Comstock
Supt. Lake Survey
Detroit, Michigan.

CATALOGUE

OF THE

MEAN DECLINATIONS OF 981 STARS,

BETWEEN

TWELVE HOURS AND TWENTY-SIX HOURS OF RIGHT ASCENSION

AND

THIRTY DEGREES AND SIXTY DEGREES OF NORTH DECLINATION,

FOR

JANUARY 1, 1875.

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PREPARED UNDER THE DIRECTION OF

BVT. BRIG. GEN'L C. B. COMSTOCK, U. S. A.
MAJOR CORPS OF ENGINEERS,
IN CHARGE OF U. S. LAKE SURVEY.

BY

PROFESSOR T. H. SAFFORD,
DIRECTOR OF DEARBORN OBSERVATORY.

WASHINGTON:
GOVERNMENT PRINTING OFFICE,
1873.

QB6
U48

CORRECTIONS.

These corrections are to rectify printer's errors or evident mistakes in the manuscript. The catalogue is made in the declinations to agree with the adopted values in the details of positions.

Introductory letter, line 4, *for* 918, *read* 981.
Page vii, line 4, *for* Most of the stars, *read* Most of these stars.
Page viii, line 16, from bottom, *for* where the adopted, *read* and are best where the adopted.
Page ix, line 1, *for* for that date, *read* for that date, namely.
Page ix, line 6, after "other" place a semicolon.

ERRATA IN THE CATALOGUE.

Page 1, No. 4123, *for* R. a. $13^s.17$, *read* $13^s.97$.
Page 1, No. 4235, *for* P. m. in Dec. $-0''.29$, *read* $+0''.29$.
Page 1, No. 4244, *for* Dec. $16'$, *read* $06'$.
Page 1, No. 4282, *for* Dec. $15''.4$, *read* $15''.5$.
Page 1, No. 4285, *for* P. m. in Dec. $-0''.18$, *read* $+0''.18$.
Page 1, No. 4341, *for* Dec. $29''.0$, *read* $29''.9$.
Page 1, No. 4345, *for* Dec. $24''.1$, *read* $24''.3$.
Page 2, No. 4556, *for* Dec. $04''.9$, *read* $05''.7$.
Page 2, No. 4676, *for* Dec. $11''.3$, *read* $11''.0$.
Page 2, No. 4943, *for* log d' 9.6550, *read* 9.6550 n.
Page 2, No. 5019, *for* log d' 9.71 . . n, *read* 9.7139 n.
Page 2, No. 5026, *for* log d' 9.6239 n, *read* 9.6284 n.
Page 3, No. 5313, *for* log e' 9.7773, *read* 9.9773.
Page 4, No. 6129, *for* log a' 8.0014, *read* 8.0014 n.
Page 4. No. 6147, *for* Dec. $43''.4$, *read* $43''.5$.
Page 4, No. 6311, *for* Dec. $38''.8$, *read* $38''.5$.
Page 6, No. 7091, *for* Dec. $57'$, *read* $47'$.
Page 7, No. 7336, *for* log e' 9.8846, *read* 9.8896.
Page 7, No. 7480, *for* Dec. $24''.3$, *read* $23''.9$.
Page 7, No. 7495, *for* R. a. $32^s.24$, *read* $33^s.24$.
Page 8, No. 7545, *for* Dec. $27''.5$, *read* $26''.7$.
Page 8, No. 7743, supply $\log a' = 1.2459$; $\log b' = 9.6791$; $\log c' = 9.8071$; $\log d' = 9.7643$.
Page 8, No. 7882, *for* Dec. $25''.9$, *read* $25''.8$.
Page 8, No. 7906, *for* log d' 0.8082, *read* 9.8082.
Page 9, No. 8056, *for* Dec. $28''.6$, *read* $31''.4$.
Page 10, No. 67, *for* Dec. $33''.7$, *read* $33''.5$.
Page 10, No. 121, *for* Dec. $50'$, *read* $49'$.
Page 10, No. 198, *for* Dec. $49°$, *read* $47°$.
Page 10, No. 226, *for* No. 226, *read* 227.
Page 10, No. 227, *for* No. 227, *read* 226.
Page 10, No. 290, *for* log e' 9.7790, *read* 8.7790.
Page 13, Arg. 185, *for* Dec. $18'$, *read* $13'$(?).
Page 13, Gr. 2473, *for* R. a. 11^s, *read* 10^s.
Page 13, Gr. 2494, *for* Dec. $03''.5$, *read* $02''.5$.
Page 14, Gr. 3554, *for* R. a. 47^s, *read* 44^s(?).
Page 14, Gr. 3680, *for* Dec. $24''.8$, *read* $25''.2$.

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ERRATA IN THE DETAILS OF POSITIONS.

Page 17, No. 4128, *for* Dec. 35′, *read* 45′.
Page 26, No. 5975, *for* Dec. 38′, *read* 39′.
Page 27, No. 6364, *for* Authority R. A., *read* R. C.
Page 27, No. 6390, *for* Dec. 37°, *read* 39°.
Page 28, No. 6476, *for* R. a. (R) $29^s.30$, *read* $29^s.50$.
Page 28, No. 6496, *for* Dec. 51°, *read* 57°.
Page 29, No. 6581, *for* Dec. 05′, *read* 55′.
Page 30, No. 6687, *for* R. a. (Ay. 1860) $22^s.23$, *read* $22^s.33$.
Page 38, No. 7746, *for* Dec. (Ad.) 27″.2, *read* 24″.2(?).
Page 41, No. 8307, *for* Dec. 41′, *read* 49′.
Page 44, No. 432, *for* Dec. 05′, *read* 45′.
Page 50, R. C. 5732, *for* R. C. 5732. *read* R. C. 5132.
Page 50, Gr. 3750, *for* Dec. (Ad.) 54″.5, *read* 54″.8.
Page 52, Gr. 317, *for* Dec. (Ad.) 01″.0, *read* 01″.3.

OFFICE OF UNITED STATES LAKE SURVEY,

Detroit, Michigan, September 20, 1872.

GENERAL: I have the honor to forward herewith a manuscript catalogue of the declinations of ~~918~~ 981 stars for use in latitude-work in the northern part of the United States.

As this catalogue has been carefully prepared by Professor Safford, for the date January 1, 1875, it can be used for many years, and there will, doubtless, be a considerable demand for it. I would therefore recommend that it be printed.

Very respectfully, yours,

C. B. COMSTOCK,

Major of Engineers and Brevet Brigadier-General.

General A. A. HUMPHREYS,

Chief of Engineers, U. S. A.

OFFICE OF THE CHIEF OF ENGINEERS,

Washington, D. C., September, 26, 1872.

Respectfully submitted to the Secretary of War. Owing to the great value of the within catalogue of stars to officers of the Corps of Engineers engaged on the Lake Survey, boundary surveys, and military and geological surveys, and reconnaissances, I have respectfully to recommend that it be printed at the Government Printing Office, and that 250 copies be furnished on requisition from this Office.

A. A. HUMPHREYS,

Brigadier-General and Chief of Engineers.

Approved:

WM. W. BELKNAP,

Secretary of War.

SEPTEMBER 27, 1872.

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CONSTRUCTION OF THE CATALOGUE.

AUTHORITIES CITED.

M.—Mädler's Reduction of Bradley's Stars to 1850 from all authorities published at that date.

St.—The Standard Catalogue of the German Astronomical Society, compiled by Argelander, Auwers, and von Asten. Most of the stars are also verified by Mädler; and the results obtained by the use of this catalogue are trustworthy, even where it is the only authority.

Berlin list

For stars not contained in either of these authorities, I have myself deduced proper motions, by comparison with D'Agelet, Fedorenko, Lalande, Piazzi, Groombridge, and, occasionally, other old authorities, wherever the proper motion appeared sure; otherwise, I have brought up by precession alone the newer authorities, namely:

T.—Taylor's Madras Catalogue.

R.—Rümker.

Rob.—Robinson's Armagh Places of Stars.

R. C.—The Radcliffe Catalogue.

Ay., with date.—Airy's Greenwich Catalogues, and observations to 1869 inclusive.

H.—Henderson's Edinburgh Observations, chiefly those for 1843 and 1844, which contain many stars not often observed elsewhere.

Ja.—Jacob's Madras Catalogue.

Bonn.—Argelander's later observations.

Q.—The Brussels observations, by Quetelet.

R. C_2.—The second Radcliffe Catalogue.

Pulc.—Oöm's Pulkowa Observations, volume III of the annals of that observatory.

Main.—The Radcliffe Observations since 1862.

Leid.—Annals of the Leiden Observatory, volume II.

Wn.—The Washington Observations, 1861–1869; many good places are in the volume for 1867.

Sm.—The Edinburgh Observations, 1860–1870; especially valuable for doubtful cases, which are there attended to in preference.

In case a star has been discussed by Argelander, I have introduced the results of his discussion under the title *Arg.*, and treated the star like one of the Standard list mentioned above.

METHOD OF REDUCING THE PLACES TO 1875.

For stars in the catalogues *Q.*, *Main*, *Sm.*, the positions were first brought up to 1860, 1865, respectively, with an approximate annual variation, including proper

motion where necessary; the remainder of the reduction was, for Mädler's stars, effected with his precessions and proper motions; omitting the latter where it seemed to be erroneous. Standard stars from the German list were treated in like manner, and stars discussed by Argelander, using precessions and proper motions cited from those authorities. Of course, secular variation was allowed for.

For other stars, precessions and secular variations were computed for 1850, and the right ascensions and declinations brought up by their help. In case proper motions have been finally adopted for these stars, they were not applied at this stage.

METHOD OF DETERMINING FINAL PLACES.

For Mädler's stars, where Mädler's p. m. is considered correct, the mean of all authorities was taken, after applying to the declinations of the older authorities the systematic corrections given in my former paper in the eighth volume of the Memoirs of the American Academy, New Series; but omitting them for the authorities *H.*, *Bonn*, *Q.*, *R. C*$_2$., *Main*, *Wn.*, *Sm.*, and also for the Greenwich Catalogues of 1860, 1864, 1868, and 1869. This course is apparently a somewhat inconsistent one; I was led to it by the desire to employ, for all stars not in Mädler, authorities similar to those he used, as he used them. In attempting to deduce systematic corrections for the later authorities I met well-known difficulties, owing in large part to the imperfections of Bradley's quadrant, upon which so much of the connection between older and newer observations depends, and thought it safer to trust to the elimination of constant errors from a mean of several authorities.

In right ascension I applied no systematic corrections at all, but omitted for the most part to take account of Jacob's and Smyth's right ascensions; the latter (chiefly) because they came so late to hand; they seem, however, to be too large.

The right ascensions are at best but approximate; where the adopted mean is not sensibly different from the newer and better authorities.

Generally, I have given each authority the weight unity; where a star was but *once* observed, a weight one-half; sometimes, where the position seemed unusually reliable, double weight.

REMARKS ON THE FINAL CATALOGUE.

The numbers are those of the British Association Catalogue; the magnitudes Argelander's, those marked with * from the Uranometria Nova, the others from the Durchmusterung. The logarithms of a', b', c', d', are arranged for use with the American Ephemeris and for *declinations* not *polar distances;* they are consequently differently arranged and lettered from those in the British Association Catalogue, and have opposite signs, as follows:

British Association Catalogue logarithms, . .	a', b', c', d'.
Logarithms here given, ...	$-c'$, $-d$,$'$ $-a'$, $-b'$.

CHECKS EMPLOYED TO AVOID ERRORS.

The precessions in declination employed to reduce to 1875 were compared with

those computed for that date; the natural numbers corresponding to the logarithms a'. The precessions in right ascension were compared with those of the British Association Catalogue.

The logarithms a', b', c', d', were compared with those of the British Association Catalogue.

The places themselves as reduced to 1875 gave at once a check upon each other where they differed more than about $0^s.2$ in right ascension and $1''$ in declination from the means they were carefully revised.

SUPPLEMENTARY LIST.

This consists of stars not in the British Association Catalogue which have been observed by good modern authorities, at least two in number, avoiding such as are suspected of proper motion in case it has not been well determined. The methods for deducing these places are similar to those of the main catalogue.

DECLINATIONS

OF

BRITISH ASSOCIATION CATALOGUE STARS

BETWEEN

30° AND 60° NORTH DECLINATION.

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		1880.0									
		h. m. s.	s.	s.	° ′ ″	″	″				
4108	6.5	12 05 30.28	+ 3.020	− 0.004	57 45 01.0	− 20.04	− 0.04	1.3020n	8.3806	9.4011	9.9271n
21	6.7	08 31.26	3.002	+ 0.003	54 07 48.6	20.04	− 0.03	1.3019n	8.5702	9.4539	9.9084n
23	3.4*	09 13.17	2.986	+ 0.019	57 43 37.9	20.04	− 0.02	1.3018n	8.6051	9.4244	9.9268n
26	6.*	09 51.47	3.021	+ 0.003	41 21 21.1	20.03	− 0.04	1.3018n	8.6335	9.5491	9.8196n
28	5.*	10 12.97	3.031	. .	33 45 33.5	20.03	− 0.12	1.3017n	8.6490	9.5860	9.7444n
48	6.*	13 38.88	2.978	+ 0.001	49 40 41.1	20.02	. .	1.3014n	8.7746	9.5134	9.8814n
59	6.*	14 46.98	2.930	+ 0.007	58 33 36.3	20.01	− 0.08	1.3013n	8.8093	9.4492	9.9302n
77	6.*	17 37.76	2.975	− 0.006	43 14 07.1	19.99	. .	1.3009n	8.8856	9.5667	9.8344n
80	5.*	17 56.51	2.936	− 0.003	52 15 17.3	19.99	. .	1.3008n	8.8932	9.5151	9.8967n
85	6.4	19 04.14	2.896	− 0.004	57 28 14.9	19.99	− 0.04	1.3007n	8.9196	9.4821	9.9244n
88	5.6*	19 41.20	2.976	− 0.006	39 42 43.5	19.98	− 0.05	1.3006n	8.9335	9.5934	9.8036n
94	7.0	20 33.18	2.894	+ 0.002	55 51 03.9	19.98	. .	1.3004n	8.9521	9.5020	9.9161n
4203	6.*	21 37.83	2.881	− 0.005	56 24 16.4	19.96	− 0.05	1.3002n	8.9742	9.5032	9.9187n
16	6.*	24 06.68	2.837	− 0.005	59 05 37.0	19.95	+ 0.06	1.2998n	9.0212	9.4955	9.9311n
17	6.*	24 07.89	2.889	− 0.024	52 13 31.5	19.94	− 0.02	1.2998n	9.0216	9.5427	9.8954n
19	6.2	24 12.48	2.832	. .	59 27 33.8	19.94	. .	1.2997n	9.0230	9.4932	9.9327n
33	5.*	27 29.44	2.963	. .	33 56 20.4	19.91	. .	1.2990n	9.0779	9.6302	9.7447n
35	4.5*	27 48.19	2.925	− 0.063	42 02 13.1	19.91	− 0.29	1.2990n	9.0828	9.6056	9.8226n
44	7.0	29 04.47	2.943	. .	37 16 51.9	19.89	. .	1.2986n	9.1021	9.6257	9.7771n
58	6.*	32 45.14	2.902	− 0.001	41 33 44.9	19.85	− 0.04	1.2977n	9.1536	9.6226	9.8173n
82	6.*	38 32.87	2.849	. .	44 47 15.4	19.77	. .	1.2960n	9.2238	9.6293	9.8417n
85	6.*	39 04.65	2.881	− 0.023	39 57 31.5	19.76	− 0.18	1.2958n	9.2296	9.6450	9.8014n
87	5.6*	39 15.08	2.834	. .	46 07 25.9	19.76	. .	1.2958n	9.2315	9.6269	9.8514n
4303	6.*	42 56.47	2.783	. .	49 08 54.4	19.70	. .	1.2945n	9.2701	9.6281	9.8711n
11	6.*	44 14.34	2.869	. .	38 11 50.6	19.68	. .	1.2940n	9.2829	9.6624	9.7831n
35	2.*	48 31.51	2.644	+ 0.016	56 38 17.8	19.60	− 0.04	1.2924n	9.3225	9.6171	9.9120n
41	6.*	49 13.78	2.756	. .	47 52 29.0	19.59	. .	1.2921n	9.3287	9.6524	9.8601n
45	5.7=(3)	50 09.46	2.836	− 0.020	38 59 24.1	19.57	+ 0.05	1.2917n	9.3356	9.6753	9.7883n
48	6.*	50 48.55	2.654	− 0.011	54 46 34.5	19.56	− 0.02	1.2914n	9.3422	9.6334	9.9014n
50	6.*	51 25.06	2.754	. .	46 51 19.9	19.55	. .	1.2911n	9.3473	9.6618	9.8521n
60	5.*	54 17.43	2.879	− 0.002	31 27 35.8	19.49	. .	1.2899n	9.3705	9.6925	9.7053n
66	6.*	55 21.43	2.578	+ 0.005	57 02 24.3	19.47	− 0.07	1.2894n	9.3788	9.6402	9.9110n
84	5.*	59 53.70	2.816	+ 0.002	36 28 05.6	19.37	+ 0.01	1.2872n	9.4123	9.7011	9.7591n
89	6.*	13 00 14.52	2.712	. .	45 56 14.0	19.36	. .	1.2870n	9.4147	9.6888	9.8413n
4407	6.0	03 52.93	2.783	. .	38 05 23.0	19.28	. .	1.2851n	9.4396	9.7086	9.7731n
08	6.3	03 56.81	2.771	+ 0.002	39 12 01.4	19.28	. .	1.2850n	9.4400	9.7078	9.7836n
14	7.0	04 16.67	2.767	− 0.006	39 23 25.3	19.27	. .	1.2848n	9.4421	9.7084	9.7852n
15	6.2	04 18.73	2.770	− 0.004	39 09 49.7	19.27	+ 0.05	1.2848n	9.4425	9.7087	9.7831n
16	6.8	04 25.34	2.489	. .	57 29 50.9	19.27	. .	1.2848n	9.4431	9.6694	9.9086n
20	6.7	05 48.03	2.737	− 0.001	41 27 27.2	19.23	− 0.03	1.2840n	9.4521	9.7098	9.8028n
33	5.*	08 02.77	2.732	. .	40 48 55.0	19.17	. .	1.2827n	9.4662	9.7157	9.7959n
38	6.*	09 54.60	2.716	− 0.008	41 30 56.4	19.13	. .	1.2816n	9.4776	9.7193	9.8009n
51	4.3*	11 56.12	2.709	− 0.010	41 13 52.6	19.07	+ 0.03	1.2804n	9.4896	9.7241	9.7972n
53	6.2	12 40.24	2.782	. .	34 45 23.8	19.06	. .	1.2799n	9.4939	9.7277	9.7337n
56	5.*	12 55.35	2.569	− 0.003	50 20 23.1	19.05	. .	1.2798n	9.4953	9.7141	9.8640n
57	6.7	13 19.20	2.768	. .	35 47 06.1	19.04	. .	1.2796n	9.4976	9.7291	9.7443n
67	5.5	14 42.80	2.701	− 0.002	40 48 26.0	19.00	− 0.01	1.2787n	9.5045	9.7305	9.7918n
79	6.0	18 13.78	2.725	. .	37 41 14.2	18.90	. .	1.2764n	9.5247	9.7388	9.7605n
84	2.*	18 53.40	2.413	+ 0.019	55 34 42.9	18.88	− 0.06	1.2759n	9.5282	9.7082	9.9094n
86	4.2	18 54.32	2.413	+ 0.019	55 34 31.0	18.88	− 0.06	1.2759n	9.5283	9.7191	9.8901n
93	5.*	20 13.00	2.401	+ 0.018	55 38 22.4	18.84	− 0.05	1.2750n	9.5352	9.7226	9.8896n
4519	6.*	25 50.42	2.619	. .	42 44 59.4	18.66	. .	1.2710n	9.5633	9.7536	9.8005n
36	5.*	29 12.76	2.677	+ 0.005	37 49 23.5	18.55	− 0.01	1.2684n	9.5792	9.7600	9.7538n
38	5.*	29 20.63	2.473	− 0.012	49 39 19.6	18.55	. .	1.2683n	9.5798	9.7563	9.8482n
4540	6.*	13 29 18.90	+ 2.318	+ 0.001	55 59 21.9	18.55	− 0.02	1.2683n	9.5797	9.7464	9.8847n

No.	Mag.	Right ascension, 1875.0.			Annual precession.	Proper motion.	Declination, 1875.0.			Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h.	m.	s.	s.	s.	°	′	″	″	″				
4545	6.*	13	29	54.83	+ 2.563	. .	44	50	11.5	− 18.53	. .	1.2678n	9.5824	9.7614	9.8139n
50	7.2		31	37.85	2.377	− 0.002	53	19	35.6	18.47	− 0.08	1.2665n	9.5902	9.7569	9.8685n
52	5.*		31	54.56	2.679	. .	36	55	52.3	18.46	. .	1.2663n	9.5915	9.7645	9.7429n
55	7.0		32	18.01	2.369	. .	53	13	50.5	18.45	. .	1.2660n	9.5932	9.7587	9.8675n
56	6.5		32	42.44	2.413	. .	51	21	04.9	18.44	. .	1.2656n	9.5950	9.7622	9.8560n
64	6.*		34	40.09	2.345	− 0.013	53	33	12.2	18.37	+ 0.01	1.2640n	9.6036	9.7639	9.8673n
68	5.5		35	59.70	2.285	. .	55	18	52.1	18.32	− 0.03	1.2628n	9.6093	9.7644	9.8758n
92	6.3		40	37.03	2.723	. .	31	31	38.7	18.15	. .	1.2589n	9.6284	9.7724	9.6752n
95	6.0		40	54.28	2.608	. .	39	07	48.9	18.14	. .	1.2586n	9.6296	9.7821	9.7566n
96	5.7		40	55.24	2.563	. .	41	43	00.1	18.14	. .	1.2586n	9.6297	9.7836	9.7797n
4600	5.6*		41	36.53	2.604	. .	39	10	07.9	18.11	. .	1.2580n	9.6324	9.7934	9.7503n
05	6.*		41	55.68	2.248	+ 0.005	55	03	26.1	18.10	− 0.07	1.2577n	9.6337	9.7790	9.8692n
07	2.*	American Nautical			Almanac	star.									
09	6.*		42	48.39	2.537	. .	42	40	24.1	18.07	. .	1.2569n	9 6372	9.7874	9.7859n
10	6.*		43	00.25	2.711	. .	31	48	42.6	18.06	. .	1.2567n	9.6379	9.7764	5.6765n
27	6.*		45	33.36	2.649	. .	35	23	33.6	17.96	. .	1.2544n	9.6478	9.7861	9.7149n
28	5.*		45	38.25	2.650	. .	35	17	10.0	17.96	. .	1.2543n	9.6481	9.7861	9.7138n
32	5.7		46	16.53	2.651	. .	35	03	50.8	17.94	. .	1.2537n	9.6506	9.7868	9.7108n
49	6.*		49	15.04	2.216	+ 0.013	54	20	36.5	17.82	− 0.05	1.2508n	9.6617	9.7964	9.8585n
52	6.*		50	37.89	2.675	. .	32	38	35.1	17.76	. .	1.2495n	9.6663	9.7892	9.6792n
76	7.0		55	49.66	2.664	. .	32	10	11.3	17.55	. .	1.2442n	9.6850	9.7959	9.6683n
78	7.5		57	00.55	2.659	. .	32	15	48.4	17.50	. .	1.2429n	9.6890	9.7978	9.6681n
84	6.0	13	58	20.64	2.239	. .	51	34	24.6	17.44	. .	1.2415n	9.6935	9.8172	9.8333n
94	7.2	14	00	53.57	2.660	. .	31	26	52.8	17.33	− 0.15	1.2387n	9.7019	9.8013	9.6540n
99	5.3	67.85	02	55.85	2.401	. .	44	26	59.6	17.24	. .	1.2364n	9.7084	9.8245	9.7796n
4701	6.*		03	37.04	2.357	− 0.004	50	02	58.1	17.21	+ 0.03	1.2357n	9.7106	9.8276	9.8180n
14	6.5		05	48.05	2.621	. .	32	53	02.3	17.11	. .	1.2330n	9.7179	9.8115	9.6656n
25	7.2		08	59.17	2.146	+ 0.014	52	22	22.0	16.96	− 0.04	1.2294n	9.7272	9.8373	9.8260n
26	4.5		09	00.33	2.146	+ 0.014	52	22	28.8	16.96	− 0.04	1.2294n	9.7272	9.8373	9.8260n
28	6.*		09	21.10	2.425	. .	42	06	22 0	16.94	− 0.14	1.2290n	9.7283	9.8329	9.7532n
36	7.0		10	54.00	2.108	. .	53	07	03.0	16.87	. .	1.2271n	9.7329	9.8406	9.8280n
38	6.*		11	19.40	2.456	. .	40	19	29.9	16.85	. .	1.2268n	9.7341	9.8336	9.7354n
41	4.*		11	37.87	2.301	− 0.016	46	39	46.3	16.83	+ 0.11	1.2262n	9.7350	9.8407	9.7858n
42	4.5*		11	44.28	2.143	− 0.015	51	56	39.8	16.83	+ 0.07	1.2261n	9.7353	9.8423	9.8201n
47	5.*		12	42.68	2.538	. .	36	05	13.2	16.78	. .	1.2249n	9.7382	9.8280	9.6928n
52	6.8		12	54.38	2.137	− 0.001	51	53	09.0	16.77	. .	1.2246n	9.7387	9.8444	9.8183n
56	7.3		14	08.39	2.105	. .	52	36	35.1	16.71	. .	1.2231n	9.7423	9.8466	9.8210n
58	6.*		14	39.72	2.463	. .	39	22	09.8	16.70	. .	1.2224n	9.7438	9.8370	9.7226n
78	7.2		18	18.18	2.483	. .	37	46	23.2	16.51	. .	1.2178n	9.7540	9.8392	9.7027n
83	6.3		20	23.11	2.450	. .	38	57	31.1	16.41	. .	1.2150n	9.7596	9.8444	9.7113n
89	4.3*	American Nautical			Almanac	star.									
97	6.5	18.33	23	05.90	2.487	. .	36	45	24.8	16.27	. .	1.2114n	9.7669	9.8435	9.6862n
4803	6.5		24	28.40	2.572	. .	32	20	53.6	16.20	. .	1.2095n	9.7704	9.8338	9.6357n
04	6.*		24	16.87	2.120	− 0.031	50	24	18.1	16.21	− 0.05	1.2097n	9.7699	9.8635	9.7944n
05	6.3	53.05	24	41.22	2.352	+ 0.014	42	21	39.5	16.19	− 0.21	1.2092n	9.7710	9.8563	9.7355n
08	4.3*		26	26.56	2.594	− 0.006	30	55	16.4	16.10	+ 0.15	1.2067n	9.7755	9.8317	9.6154n
12	3.2*		27	02.69	2.427	− 0.004	38	51	20.9	16.06	+ 0.14	1.2059n	9.7770	9.8533	9.7012n
16	6.8		28	13.85	2.453	. .	37	30	45.3	16.00	. .	1.2042n	9.7800	9.8519	9.6866n
20	6.8		28	52.40	2.544	. .	33	05	00.9	15.97	. .	1.2032n	9.7816	9.8412	9.6382n
23	5.0	27.34	29	14.27	2.598	+ 0.017	30	17	22.0	15.95	+ 0.14	1.2027n	9.7826	9.8327	9.6033n
25	6.2		29	31.97	2.456	. .	37	10	35.9	15.93	. .	1.2023n	9.7833	9.8528	9.6814n
26	7.3		29	24.31	1.977	− 0.019	53	26	58.9	15.94	+ 0.28	1.2025n	9.7830	9.8726	9.8052n
27	6.2		29	31.84	2.191	. .	47	20	05.2	15.93	. .	1.2023n	9.7833	9.8695	9.7666n
30	6.*		30	17.62	2.103	. .	49	54	49.2	15.89	. .	1.2012n	9.7852	9.8727	9.7827n
41	6.0		33	31.00	2.264	. .	44	10	56.4	15.72	+ 0.06	1.1964n	9.7930	9.8714	9.7375n
43	6.*		34	11.07	2.230	− 0.007	44	56	41.8	15.68	− 0.02	1.1954n	9.7946	9.8735	9.7423n
45	6.*		34	17.27	1.900	. .	54	33	51.4	15.68	. .	1.1953n	9.7948	9.8805	9.8042n
63	6.8		37	36.03	2.425	. .	37	17	24.0	15.50	. .	1.1902n	9.8026	9.8632	9.6704n
70	5.5		38	53.48	2.329	. .	40	59	20.2	15.37	. .	1.1882n	9.8056	9.8732	9.7029n
81	6.8		39	53.41	2.190	. .	45	42	55.4	15.37	. .	1.1866n	9.8078	9.8824	9.7393n
85	7.0		40	46.92	2.269	. .	42	54	25.1	15.32	. .	1.1852n	9.8098	9.8792	9.7160n
97	6.*		44	12.29	2.377	− 0.021	38	19	38.0	15.12	+ 0.12	1.1796n	9.8174	9.8737	9.6699n
4903	6.*		44	51.31	2.138	+ 0.001	46	38	16.5	15.08	− 0.08	1.1785n	9.8188	9.8904	9.7379n
06	6.*		45	33.56	2.386	− 0.020	37	47	09.0	15.04	+ 0.09	1.1774n	9.8203	9.8739	9.6624n
07	6.*		45	26.34	2.046	− 0.007	49	14	06.9	15.05	+ 0.07	1.1776n	9.8201	9.8942	9.7547n
17	6.5		47	38.76	2.114	. .	46	59	31.5	14.92	. .	1.1738n	9.8248	9.8946	9.7357n
18	6.*		48	16.08	1.532	− 0.016	59	48	10.0	14.89	+ 0.17	1.1728n	9.8261	9.9016	9.8073n
34	6.8		51	16.99	2.203	. .	41	38	26.6	14.71	. .	1.1676n	9.8323	9.8898	9.6879n
37	6.*	23.86	52	13.95	1.978	+ 0.004	50	08	25.0	14.65	− 0.23	1.1659n	9.8342	9.9043	9.7489n
42	6.5		54	38.36	2.293	. .	40	08	31.2	14.51	. .	1.1616n	9.8391	9.8903	9.6688n
43	5.*		54	49.36	2.303	− 0.004	39	45	43.8	14.49	+ 0.05	1.1612n	9.8394	9.8896	9.6650n
52	6.3		56	22.83	2.046	. .	47	46	18.8	14.40	. .	1.1584n	9.8425	9.9068	9.7257n
58	3.*	American Nautical			Almanac.	. .	.	.	.	14.35	. .	1.1568n	9.8442	9.8950	9.6706n
61	6.*		58	06.79	2.398	. .	35	41	46.8	14.30	. .	1.1552n	9.8459	9.8817	9.6191n
65	6.2		58	41.89	2.127	. .	45	08	02.3	14.27	. .	1.1541n	9.8470	9.9055	9.7024n
74	5.*	14	59	40.16	2.017	− 0.039	48	08	28.8	14.20	. .	1.1523n	9.8488	9.9114	9.7221n
80	5.*	15	01	17.30	1.992	− 0.008	48	38	04.5	14.10	+ 0.02	1.1492n	9.8519	9.9140	9.7224n
92	5.5		02	42.39	1.703	. .	55	02	17.0	14.01	. .	1.1461n	9.8545	9.9216	9.7575n
5000	7.2		05	34.98	2.429	. .	33	33	12.2	13.83	. .	1.1408n	9.8598	9.8818	9.5811n
19	7.5		07	23.45	1.943	. .	49	09	51.5	13.72	. .	1.1372n	9.8630	9.9220	9.71 n
5026	6.0	61.41	15	08	49.99	+ 2.284	. .	38	44	02.5	13.63	. .	1.1342n	9.8656	9.9018	9.6239n

84n

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
5033	6.1	15 09 39.21	+ 2.165	. .	42 38 16.3	— 13.57	. .	1.1326n	9.8670	9.9127	9.6612n
36	3.*	10 27.85	2.411	+ 0.010	33 46 56.2	13.52	— 0.10	1.1309n	9.8684	9.8873	9.5738n
61	6.*	14 58.33	2.489	— 0.009	30 04 14.9	13.22	— 0.04	1.1213n	9.8761	9.8763	9.5191n
64	7.0	15 33.76	1.842	. .	50 40 01.7	13.18	. .	1.1200n	9.8771	9.9334	9.7063n
71	6.	16 24.71	1.759	. .	52 24 34.1	13.13	. .	1.1182n	9.8784	9.9363	9.7150n
72	5.6	16 48.30	2.404	— 0.001	33 22 55.8	13.10	. .	1.1173n	9.8791	9.8914	9.5551n
75	5.*	18 02.42	2.466	+ 0.011	30 44 25.9	13.02	— 0.18	1.1146n	9.8811	9.8818	9.5210n
76	6.*	17 59.92	2.217	. .	40 01 43.9	13.02	. .	1.1147n	9.8810	9.9145	9.6209n
77	7.0	17 50.20	1.733	. .	52 47 31.3	13.03	. .	1.1151n	9.8808	9.9383	9.7141n
84	. .	American Nautical	Almanac.		. . .	12.91	. .	1.1108n	9.8839	9.9096	9.5960n
92	6.6	21 04.89	1.949	. .	47 30 07.7	12.82	. .	1.1078n	9.8860	9.9346	9.6733n
97	3.*	22 09.11	1.326	+ 0.003	59 24 16.6	12.74	+ 0.01	1.1053n	9.8876	9.9471	9.7381n
5113	6.7	25 24.60	1.906	. .	48 08 35.0	12.52	. .	1.0977n	9.8927	9.9401	9.6676n
22	4.5	26 26.36	2.152	+ 0.001	41 15 37.0	12.45	+ 0.01	1.0953n	9.8942	9.9259	9.6123n
30	4.8	27 18.44	2.147	— 0.003	41 19 28.6	12.39	+ 0.01	1.0932n	9.8955	9.9268	9.6108n
31	4.*	27 53.28	2.419	— 0.004	31 46 55.1	12.35	— 0.06	1.0918n	9.8964	9.8942	9.5112n
55	5.*	30 39.65	2.197	+ 0.002	39 25 34.8	12.16	+ 0.01	1.0850n	9.9004	9.9244	9.5856n
57	6.7	30 52.94	2.059	. .	43 34 55.6	12.15	. .	1.0844n	9.9007	9.9359	9.6207n
64	7.0	31 29.72	1.796	. .	50 06 50.6	12.10	. .	1.0829n	9.9016	9.9494	9.6657n
68	5.*	33 20.29	2.147	+ 0.007	40 45 41.7	11.97	+ 0.08	1.0782n	9.9042	9.9306	9.5909n
75	6.8	34 08.55	2.032	. .	44 00 44.9	11.92	. .	1.0762n	9.9054	9.9399	9.6159n
77	6.*	34 16.11	1.909	+ 0.011	47 12 38.0	11.91	— 0.13	1.0759n	9.9055	9.9470	9.6393n
78	4.*	34 40.25	2.258	+ 0.001	37 02 33.3	11.88	— 0.05	1.0748n	9.9061	9.9199	9.5526n
81	6.*	34 55.16	1.748	. .	50 49 55.1	11.86	. .	1.0742n	9.9065	9.9538	9.6615n
5204	6.*	39 03.66	2.364	— 0.003	32 54 42.2	11.57	— 0.01	1.0633n	9.9121	9.9074	9.4962n
10	6.*	39 26.71	1.633	. .	52 45 22.0	11.54	+ 0.03	1.0622n	9.9126	9.9608	9.6610n
48	6.0	44 36.80	1.440	. .	55 45 35.7	11.17	. .	1.0480n	9.9193	9.9688	9.6632n
59	5.4*	46 31.28	2.259	— 0.002	36 02 46.7	11.03	— 0.37	1.0426n	9.9218	9.9244	9.5101n
71	4.5	48 21.09	2.032	+ 0.036	42 48 08.7	10.89	+ 0.61	1.0372n	9.9240	9.9488	9.5672n
79	6.*	49 22.26	1.390	. .	56 11 46.2	10.82	. .	1.0342n	9.9253	9.9736	9.6516n
87	6.*	50 27.94	2.000	. .	43 30 12.5	10.74	+ 0.07	1.0310n	9.9266	9.9523	9.5667n
95	5.7	51 14.74	2.177	+ 0.004	38 18 33.2	10.68	+ 0.10	1.0286n	9.9275	9.9371	9.5188n
98	6.0*	51 18.25	2.018	+ 0.002	42 55 50.8	10.68	— 0.01	1.0285n	9.9276	9.9514	9.5595n
5307	6.6	53 24.39	1.157	. .	59 16 21.5	10.52	. .	1.0221n	9.9301	9.9792	9.6542n
10	6.*	54 20.63	2.211	. .	36 59 57.8	10.45	. .	1.0192n	9.9312	9.9345	9.4964n
13	5.1	54 49.44	1.433	— 0.024	55 06 12.7	10.42	+ 0.10	1.0177n	9.9317	9.7773	9.6294n
16	6.0	55 31.51	1.696	. .	50 14 17.4	10.36	. .	1.0155n	9.9325	9.9438	9.5991n
19	5.7	56 16.05	2.307	— 0.010	33 40 55.0	10.31	— 0.75	1.0132n	9.9334	9.9226	9.4550n
21	5.0	56 26.10	2.403	— 0.007	30 12 07.2	10.29	— 0.02	1.0126n	9.9336	9.9067	9.4121n
36	6.*	58 43.57	2.202	. .	36 58 40.0	10.14	. .	1.0053n	9.9361	9.9374	9.4824n
38	4.5	58 54.26	1.859	+ 0.005	46 23 04.1	10.11	— 0.08	1.0047n	9.9363	9.9659	9.5623n
41	6.0	58 54.15	1.524	. .	53 15 49.5	10.11	. .	1.0047n	9.9363	9.9785	9.6064n
48	4.3	15 59 32.94	1.154	— 0.041	53 53 58.3	10.06	+ 0.33	1.0026n	9.9370	9.9844	9.6331n
85	5.0	16 04 24.10	2.195	— 0.003	36 48 35.4	9.69	+ 0.36	0.9864n	9.9422	9.9405	9.4617n
88	4.*	04 49.73	1.889	— 0.010	45 15 48.6	9.66	. .	0.9849n	9.9427	9.9675	9.5342n
5400	7.0	06 21.14	1.929	+ 0.013	44 09 12.8	9.54	— 0.32	0.9796n	9.9443	9.9657	9.5204n
11	6.*	07 13.92	2.191	. .	36 44 57.6	9.47	. .	0.9765n	9.9452	9.9421	9.4513n
15	6.*	06 36.11	1.169	. .	58 15 49.4	9.52	. .	0.9787n	9.9445	9.9897	9.6062n
17	6.3	07 39.39	1.983	. .	42 41 44.0	9.44	. .	0.9750n	9.9456	9.9624	9.5041n
32	6.*	09 59.80	2.266	— 0.023	34 10 35.4	9.26	— 0.06	0.9666n	9.9479	9.9331	9.4140n
60	6.*	15 38.48	2.063	. .	40 00 31.4	8.82	. .	0.9454n	9.9533	9.9589	9.4514n
61	6.0	15 41.82	1.673	. .	49 20 16.1	8.81	. .	0.9452n	9.9534	9.9841	9.5230n
63	3.4	15 58.97	1.800	— 0.001	46 36 42.7	8.79	+ 0.02	0.9441n	9.9536	9.9783	9.5033n
73	5.*	17 13.65	2.342	— 0.006	31 11 00.8	8.70	+ 0.13	0.9392n	9.9548	9.9231	9.3512n
79	5.2	17 39.08	2.255	. .	34 05 41.4	8.66	. .	0.9375n	9.9552	9.9370	9.3840n
80	5.3	17 46.66	2.258	. .	33 59 43.5	8.65	. .	0.9370n	9.9553	9.9366	9.3824n
84	6.*	18 08.60	2.299	+ 0.003	32 37 33.4	8.62	— 0.07	0.9356n	9.9556	9.9305	9.3641n
96	5.7	20 56.98	2.134	+ 0.001	37 40 47.2	8.40	— 0.01	0.9247n	9.9581	9.9535	9.4083n
97	7.0	20 55.24	1.858	. .	44 58 33.3	8.40	. .	0.9244n	9.9581	9.9771	9.4715n
99	6.5	21 20.30	1.484	. .	52 34 29.4	8.37	. .	0.9226n	9.9584	9.9936	9.5204n
5502	5.7	21 41.50	1.303	+ 0.005	55 29 23.2	8.34	— 0.01	0.9212n	9.9587	9.9979	9.5350n
03	6.9	21 50.28	1.515	. .	52 00 01.1	8.33	. .	0.9206n	9.9589	9.9930	9.5149n
15	7.2	23 12.57	2.280	— 0.002	32 58 43.4	8.22	. .	0.9148n	9.9599	9.9347	9.3485n
23	5.6	24 32.31	1.964	+ 0.004	42 09 30.1	8.11	+ 0.06	0.9092n	9.9612	9.9710	9.4338n
34	7.1	26 49.30	2.250	— 0.001	33 46 59.2	7.93	+ 0.01	0.8993n	9.9631	9.9402	9.4322n
35	5.8	26 40.33	1.647	. .	49 14 03.4	7.94	. .	0.8999n	9.9629	9.9907	9.4771n
41	6.9	28 36.84	2.338	— 0.006	30 45 44.2	7.79	— 0.04	0.8913n	9.9645	9.9264	9.2980n
46	6.8	29 19.95	2.095	. .	38 20 58.8	7.73	. .	0.8880n	9.9651	9.9604	9.3786n
49	6.8	29 39.20	1.579	. .	50 24 20.5	7.70	. .	0.8866n	9.9653	9.9945	9.4712n
52	4.*	30 04.43	1.931	+ 0.001	42 41 45.6	7.67	+ 0.06	0.8846n	9.9657	9.9756	9.4138n
59	7.0	30 56.04	1.459	. .	52 29 50.0	7.60	. .	0.8807n	9.9663	9.9993	9.4780n
68	6.*	32 32.48	1.747	. .	46 52 00.85	7.47	. .	0.8732n	9.9676	9.9885	9.4342n
74	5.3	33 14.05	1.414	— 0.002	53 09 07.1	7.41	. .	0.8699n	9.9681	0.0016	9.4710n
75	5.0	33 16.50	1.412	— 0.003	53 10 34.0	7.41	— 0.02	0.8697n	9.9681	0.0017	9.4709n
96	5.0	35 21.26	1.628	— 0.004	49 10 25.0	7.24	+ 0.01	0.8597n	9.9697	9.9953	9.4364n
99	5.4	35 28 92	1.204	. .	56 15 35.8	7.23	. .	0.8590n	9.9698	0.0072	9.4768n
5604	3.2*	36 34.53	2.290	— 0.032	31 49 50.0	7.14	+ 0.41	0.8536n	9.9706	9.9352	9.2736n
15	7.7	38 36.95	2.135	. .	36 44 42.0	6.97	. .	0.8434n	9.9720	9.9584	9.3181n
17	3.*	American Nautical	Almanac	star.							
19	6.0	39 15.12	2.216	. .	34 16 12.4	6.92	. .	0.8401n	9.9725	9.9480	9.2885n
5629	6.3	16 40 24.84	+ 1.213	. .	55 55 11.0	— 6.82	. .	0.8340n	9.9733	0.0094	9.4501n

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
5643	5.0*	16 42 55.71	1.127	+ 0.006	57 00 20.7	— 6.62	+ 0.06	0.8207 n	9.9750	0.0120	9.4421 n
44	6.5	43 19.80	1.915	. .	42 27 45.8	6.58	. .	0.8185 n	9.9752	9.9813	9.3457 n
52	6.9	44 23.57	2.336	— 0.005	30 10 50.9	6.50	+ 0.12	0.8126 n	9.9759	9.9298	9.2118 n
58	6.*	44 17.50	1.222	. .	55 37 55.3	6.50	. .	0.8132 n	9.9759	0.0110	9.4277 n
66	6.*	45 46.27	2.339	. .	30 01 16.0	6.38	+ 0.01	0.8049 n	9.9768	9.9294	9.2020 n
67	4.5*	45 34.54	1.750	— 0.001	46 12 06.6	6.40	— 0.08	0.8060 n	9.9767	9.9932	9.3623 n
93	5.*	48 13.59	2.278	— 0.008	31 54 36.1	6.18	0.00	0.7908 n	9.9783	9.9401	9.2118 n
5706	7.0	50 43.72	1.715	. .	46 44 32.3	5.97	. .	0.7759 n	9.9798	9.9968	9.3360 n
31	3.4*	55 30.46	2.296	— 0.002	31 06 42.2	5.57	+ 0.03	0.7457 n	9.9826	9.9384	9.1568 n
47	5.*	American Nautical	Almanac	star. . .	. . .	. .	. .	0.7359 n	9.9834	9.9521	9.1785 n
52	6.0	57 04.07	1.099	. .	56 52 20.9	5.44	. .	0.7354 n	9.9834	0.0184	9.3562 n
63	6.5	16 59 01.09	2.148	+ 0.007	35 35 30.8	5.27	— 0.03	0.7221 n	9.9844	9.9611	9.1848 n
75	6.5	17 01 16.50	1.823	. .	43 58 59.3	5.08	. .	0.7060 n	9.9856	9.9930	9.2455 n
76	5.8	01 30.71	1.585	. .	48 58 40.0	5.06	. .	0.7043 n	9.9857	0.0064	9.2798 n
77	7.4	02 12.93	2.148	. .	35 29 26.7	5.00	. .	0.6992 n	9.9860	9.9617	9.1609 n
85	4.8	02 44.64	1.246	— 0.012	54 38 07.7	4.96	+ 0.07	0.6953 n	9.9863	0.0176	9.3045 n
88	5.*	03 36.22	2.126	. .	36 05 55.9	4.89	. .	0.6888 n	9.9867	9.9647	9.1569 n
90	6.*	03 41.90	1.957	. .	40 40 50.1	4.88	. .	0.6881 n	9.9868	9.9829	9.2001 n
95	6.5	05 13.13	1.467	. .	51 00 05.4	4.75	. .	0.6765 n	9.9875	0.0120	9.2648 n
97	6.7	05 09.34	0.957	. .	58 25 55.4	4.75	. .	0.6770 n	9.9874	0.0232	9.3053 n
5801	6.7	05 23.82	1.150	. .	55 55 37.3	4.73	. .	0.6751 n	9.9876	0.0204	9.2911 n
34	3.4	10 41.67	2.089	. .	36 57 04.5	4.28	+ 0.01	0.6315 n	9.9899	9.9704	9.1083 n
42	5.*	12 42.43	2.214	— 0.003	33 14 09.5	4.11	. .	0.6137 n	9.9907	9.9539	9.0504 n
47	5.*	13 21.65	2.068	— 0.001	37 25 24.9	4.05	+ 0.06	0.6077 n	9.9909	9.9730	9.0893 n
53	6.*	13 37.70	1.520	. .	49 49 32.5	4.03	. .	0.6053 n	9.9910	0.0122	9.1862 n
63	5.6*	15 58.97	2.231	+ 0.011	32 37 47.2	3.83	— 1.04	0.5829 n	9.9919	9.9517	9.0125 n
71	5.5	16 49.21	1.694	— 0.006	46 21 51.1	3.76	+ 0.02	0.5747 n	9.9922	0.0048	9.1322 n
74	5.*	17 37.50	1.965	. .	40 05 53.9	3.69	— 0.10	0.5666 n	9.9925	9.9846	9.0734 n
86	4.*	19 22.35	2.070	+ 0.002	37 15 43.2	3.54	— 0.02	0.5485 n	9.9931	9.9737	9.0284 n
95	6.8	20 07.30	2.077	— 0.002	37 03 50.5	3.47	. .	0.5405 n	9.9934	9.9730	9.0185 n
5902	6.3	21 12.78	1.032	. .	57 07 30.6	3.38	. .	0.5286 n	9.9937	0.0267	9.1516 n
11	6.	23 25.43	1.586	— 0.001	48 21 56.5	3.19	— 0.03	0.5033 n	9.9944	0.0112	9.0747 n
18	6.0	24 12.45	0.894	. .	58 45 23.6	3.12	. .	0.4940 n	9.9947	0.0292	9.1238 n
27	6.*	26 11.37	2.269	. .	31 15 09.2	2.95	. .	0.4694 n	9.9953	9.9465	8.8823 n
29	6.5	26 29.67	2.001	. .	38 58 35.7	2.92	. .	0.4655 n	9.9953	9.9821	8.9620 n
37	3.2	27 36.48	1.352	— 0.002	52 23 40.5	2.82	. .	0.4510 n	9.9956	0.0208	9.0477 n
44	6.*	29 09.49	1.906	. .	41 19 59.3	2.69	. .	0.4298 n	9.9961	9.9913	8.9475 n
50	5.2	29 42.92	1.159	+ 0.020	55 16 12.2	2.64	+ 0.03	0.4219 n	9.9962	0.0261	9.0346 n
51	5.2	29 48.28	1.160	+ 0.020	55 15 30.6	2.63	+ 0.02	0.4207 n	9.9962	0.0261	9.0333 n
62	6.*	31 51.20	2.278	. .	30 51 49.6	2.46	. .	0.3903 n	9.9967	9.9453	8.7983 n
75	6.*	33 21.56	1.562	+ 0.005	48 39 31.9	2.33	+ 0.02	0.3665 n	9.9971	0.0138	8.9399 n
86	6.0	35 14.27	2.264	. .	31 16 11.4	2.16	. .	0.3349 n	9.9975	9.9478	8.7480 n
90	3.4	35 56.17	1.691	. .	46 04 25.1	2.10	— 0.01	0.3225 n	9.9976	0.0074	8.8778 n
97	6.5	36 50.42	1.808	. .	43 31 56.8	2.02	. .	0.3059 n	9.9978	9.9999	8.8419 n
6013	6.5	39 23.18	1.779	. .	44 08 23.3	1.80	. .	0.2555 n	9.9982	0.0022	8.7962 n
30	6.*	43 46.78	1.608	. .	47 39 22.0	1.42	. .	0.1502 n	9.9989	0.0126	8.7168 n
52	5.*	46 05.11	1.434	— 0.007	50 48 40.7	1.22	+ 0.19	0.0826 n	9.9992	0.0203	8.6708 n
56	6.*	46 47.08	1.566	+ 0.001	48 25 42.7	1.16	— 0.02	0.0612 n	9.9993	0.0148	8.6330 n
62	6.2	48 00.66	1.950	. .	40 00 37.2	1.05	+ 0.04	0.0210 n	9.9994	9.9888	8.5270 n
68	5.*	49 13.89	1.949	. .	40 01 57.4	0.93	+ 0.06	9.9699 n	9.9995	9.9889	8.4761 n
79	3.4*	51 22.10	1.022	+ 0.014	56 53 34.0	0.75	+ 0.07	9.8784 n	9.9997	0.0310	8.4993 n
82	4.*	51 57.98	2.055	. .	37 16 05.6	0.70	+ 0.02	9.8469 n	9.9997	9.9779	8.3269 n
87	4.5*	53 43.30	2.294	+ 0.004	30 12 03.6	0.55	. .	9.7398 n	9.9998	9.9434	8.1392 n
91	2.3*	American Ephemeris star.									
95	7.2	54 10.71	1.806	. .	43 25 44.7	0.51	. .	9.7070 n	9.9999	0.0010	8.2431 n
6109	6.*	56 21.96	1.710	. .	45 30 30.1	0.32	. .	9.5022 n	9.9999	0.0075	8.0533 n
2	6.*	17 59 52.87	1.562	. .	48 27 33.0	— 0.01	. .	8.0014	0.0000	0.0154	6.5834 n
47	5.*	18 02 16.83	2.282	— 0.007	30 32 43.4	+ 0.20	+ 0.07	9.3001	0.0000	9.9454	7.7040
62	5.*	03 42.80	1.805	. .	43 26 51.3	0.33	. .	9.5117	9.9999	0.0011	8.0469
78	5.*	07 12.03	2.257	+ 0.004	31 22 30.1	0.63	— 0.05	9.7991	9.9998	9.9498	8.2134
84	7.5	07 48.62	1.072	. .	56 14 18.8	0.68	. .	9.8346	9.9998	0.0302	8.4523
85	6.*	07 57.91	1.216	+ 0.015	54 14 58.3	0.70	+ 0.22	9.8430	9.9997	0.0272	8.4501
93	6.0*	08 54.60	1.999	. .	38 44 22.4	0.78	. .	9.8918	9.9997	9.9840	8.3860
6203	5.5	11 45.31	1.864	— 0.007	42 07 03.5	1.03	. .	0.0120	9.9994	9.9964	8.5364
16	7.0	12 29.60	1.051	. .	56 32 44.5	1.09	. .	0.0384	9.9994	0.0303	8.6576
18	6.*	13 08.70	1.916	— 0.020	40 53 17.9	1.15	+ 0.06	0.0608	9.9993	9.9919	8.5746
35	.	15 28.88	2.102	+ 0.001	36 00 32.5	1.35	+ 0.04	0.1314	9.9990	9.9720	8.5986
40	6.*	17 00.48	1.408	. .	51 17 37.9	1.49	. .	0.1721	9.9988	0.0210	8.7623
52	5.5	17 59.18	1.502	. .	49 39 53.4	1.57	. .	0.1965	9.9987	0.0174	8.7764
55	5.*	18 20.88	1.535	. .	49 03 31.5	1.60	. .	0.2051	9.9986	0.0159	8.7811
58	6.8	18 33.05	1.411	. .	51 14 28.4	1.62	. .	0.2099	9.9986	0.0207	8.7997
68	5.6*	20 06.73	1.976	— 0.002	39 26 24.5	1.76	. .	0.2449	9.9983	9.9868	8.7457
89	5.*	22 04.91	0.880	— 0.007	58 43 43.5	1.93	+ 0.06	0.2854	9.9980	0.0318	8.9151
6311	7.2	24 58.10	0.804	. .	59 37 38.8	2.18	. .	0.3385	9.9974	0.0322	8.9722
18	6.2	25 58.70	0.819	. .	59 27 58.0	2.27	. .	0.3557	9.9972	0.0329	8.9887
35	6.5	29 19.82	1.373	. .	52 01 20.2	2.56	. .	0.4081	9.9964	0.0217	9.0026
48	5.*	30 25.06	1.035	— 0.003	56 57 00.2	2.65	— 0.04	0.4238	9.9962	0.0280	9.0450
49	7.3	31 10.53	2.006	. .	38 47 37.9	2.72	— 0.04	0.4344	9.9960	9.9818	8.9292
50	5.6	31 06.52	1.360	. .	52 15 18.0	2.71	. .	0.4335	9.9960	0.0218	9.0294
55	1.*	32 42.36	2.012	+ 0.019	38 40 06.3	2.85	+ 0.29	0.4551	9.9956	9.9810	8.9487
6357	6.5	18 33 58.82	1.979	. .	39 33 32.2	2.96	. .	0.4716	9.9952	9.9843	8.9735

1880.0

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Delination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
6364	6.2	18 35 31.28	+ 1.930	. .	40 49 18.1	+ 3.10	. .	0.4907	9.9948	9.9887	9.0040
65	7.2	35 57.85	2.030	. .	38 15 07.8	3.13	. .	0.4961	9.9946	9.9788	8.9857
68	7.2	36 05.08	1.176	+ 0.010	55 07 48.4	3.14	+ 0.05	0.4975	9.9946	0.0246	9.1094
72	6.*	37 00.34	1.378	. .	52 04 43.7	3.22	. .	0.5083	9.9943	0.0192	9.1032
90	4.3	40 11.85	1.984	+ 0.001	39 32 26.1	3.50	+ 0.06	0.5438	9.9933	9.9829	9.0456
91	4.6	40 14.20	1.987	+ 0.001	39 28 58.7	3.50	+ 0.08	0.5444	9.9933	9.9826	9.0456
92	4.5	40 28.07	2.062	+ 0.003	37 28 31.6	3.52	+ 0.02	0.5468	9.9932	9.9746	9.0289
94	5.5	40 29.95	2.062	+ 0.002	37 27 53.1	3.53	0.00	0.5471	9.9932	9.9746	9.0291
95	5.5	40 12.61	1.161	— 0.001	55 24 47.1	3.50	— 0.01	0.5441	9.9933	0.0240	9.1575
6404	6.*	42 13.29	1.916	. .	41 18 30.5	3.67	. .	0.5650	9.9926	9.9889	9.0825
19	6.3	43 55.40	1.339	. .	52 51 04.8	3.82	. .	0.5820	9.9920	0.0189	9.1814
21	7.0	44 15.96	1.546	. .	49 17 38.4	3.85	. .	0.5853	9.9919	0.0116	9.1629
26	6.3	45 06 77	2.230	. .	32 40 11.8	3.92	— 0.01	0.5935	9.9915	9.9516	9.0235
27	5.6	45 12.84	2.239	— 0.001	32 24 29.2	3.93	— 0.01	0.5944	9.9915	9.9503	9.0214
28	6.*	44 58.39	1.583	. .	48 37 30.2	3.91	. .	0.5921	9.9916	0.0098	9.1653
29	Var.	American Ephemeris star.									
52	6.*	48 47.04	1.349	. .	52 48 50.9	4.24	+ 0.29	0.6270	9.9901	0.0174	9.2261
56	6.1	49 21.60	2.094	+ 0.001	36 48 59.2	4.28	— 0.02	0.6320	9.9898	9.9698	9.1075
63	4.3	49 21.28	0.877	+ 0.008	59 14 09.3	4.28	+ 0.01	0.6320	9.9898	0.0259	9.2639
66	4.5	50 07.90	2.099	. .	36 44 27.8	4.35	. .	0.6386	9.9895	9.9692	9.1133
68	6.*	50 17.76	2.198	. .	33 48 36.0	4.37	— 0.03	0.6400	9.9895	9.9560	9.0832
70	5.*	50 07.63	1.485	. .	50 33 12.9	4.35	. .	0.6386	9.9895	0.0126	9.2242
73	6.0	50 51.92	1.919	. .	41 26 37.5	4.41	. .	0.6448	9.9892	9.9872	9.1635
75	Var.	51 31.87	1.822	+ 0.004	43 46 56.4	4.47	+ 0.08	0.6504	9.9889	9.9946	9.1883
76	6.*	51 29.41	1.588	. .	48 42 13.9	4.47	— 0.12	0.6500	9.9889	0.0081	9.2237
77	6.3	51 36.10	1.039	. .	57 19 41.8	4.48	. .	0.6510	9.9889	0.0232	9.2740
80	6.7	52 20.44	2.234	+ 0.013	32 41 31.2	4.54	— 0.18	0.6570	9.9886	9.9503	9.0880
91	3.4*	54 16.07	2.243	+ 0.003	32 31 09.4	4.70	. .	0.6724	9.9877	9.9486	9.1007
93	6.*	54 41.20	1.961	. .	40 30 31.6	4.74	. .	0.6757	9.9875	9.9828	9.1862
95	6.*	54 59.76	2.018	. .	39 02 43.7	4.77	. .	0.6781	9.9874	9.9772	9.1753
96	6.*	54 38.16	1.020	— 0.005	57 38 58.1	4.74	— 0.07	0.6753	9.9875	0.0224	9.2999
97	5.6*	55 17.94	2.261	+ 0.003	31 58 17.7	4.79	— 0.02	0.6805	9.9872	9.9456	9.1022
6500	6.6	55 24.69	0.990	. .	58 03 12.4	4.80	. .	0.6814	9.9872	0.0226	9.3079
16	7.2	57 41.25	1.640	. .	47 51 29.2	4.99	. .	0.6985	9.9861	0.0040	9.2664
20	5.*	57 54.02	1.695	. .	46 45 30.4	5.01	— 0.09	0.7000	9.9860	0.0011	9.2603
22	6.*	58 14.88	1.190	— 0.004	55 28 45.4	5.04	— 0.05	0.7026	9.9858	0.0184	9.3163
30	6.3	18 59 10.46	1.412	. .	52 04 49.1	5.12	. .	0.7093	9.9854	0.0126	9.3041
34	6.0	19 00 12.14	2.278	. .	31 33 32.4	5.21	. .	0.7166	9.9848	9.9421	9.1332
51	5.4	02 06.58	1.349	— 0.003	53 12 18.5	5.37	— 0.01	0.7298	9.9838	0.0134	9.3312
53	5.6*	02 41.89	2.257	+ 0.009	32 18 22.0	5.42	+ 0.04	0.7338	9.9835	9.9451	9.1595
56	5.*	02 50.51	2.139	+ 0.001	35 54 19.0	5.43	— 0.01	0.7348	9.9835	9.9619	9.2008
66	7.4	05 21.60	1.533	. .	50 09 45 8	5.64	. .	0.7514	9.9821	0.0064	9.3345
67	7.3	05 58.83	2.288	. .	31 25 54.6	5.69	. .	0.7554	9.9817	9.9396	9.1705
71	6.*	06 58.33	2.300	. .	31 04 34.0	5.78	+ 0.01	0.7617	9.9812	9.9375	9.1723
79	6.*	08 50.81	1.570	— 0.015	49 37 16.2	5.93	+ 0.62	0.7733	9.9801	0.0038	9.3530
81	4.5*	09 30.12	2.041	— 0.001	38 55 55.7	5.99	+ 0.04	0.7773	9.9797	9.9719	9.2740
83	5.5	09 18.69	1.133	+ 0.004	56 38 47.9	5.97	+ 0.03	0.7761	9.9798	0.0153	9.3958
93	7.0	11 34.00	1.998	. .	40 08 30.9	6.16	. .	0.7896	9.9785	9.9755	9.2968
99	4.5*	12 01.78	2.081	+ 0.001	37 54 42.5	6.20	— 0.01	0.7923	9.9782	9.9669	9.2786
6601	5.3	11 41.16	1.075	— 0.001	57 29 22.2	6.17	— 0.11	0.7903	9.9784	0.0152	9.4141
03	6.3	12 03.61	1.564	. .	49 51 02.4	6.20	. .	0.7925	9.9782	0.0029	9.3736
23	4.*	14 12.72	1.381	+ 0.004	53 08 18.2	6.38	+ 0.10	0.8048	9.9768	0.0081	9.4068
24	6.6	14 47.38	2.004	. .	40 07 51.3	6.43	. .	0.8081	9.9765	9.9741	9.3151
26	6.3	15 17.76	1.598	. .	49 20 17.2	6.47	. .	0.8109	9.9761	0.0003	9.3888
35	6.4	16 50.72	1.324	. .	54 08 38.7	6.60	. .	0.8194	9.9751	0.0084	9.4260
40	6.0	17 58.44	1.100	. .	57 24 33.1	6.69	. .	0.8255	9.9744	0.0120	9.4490
51	6.7	19 36.83	2.151	. .	36 12 21.5	6.83	+ 0.05	0.8342	9.9733	9.9569	9.3034
56	6.*	19 59.40	1.894	. .	43 08 44.3	6.86	. .	0.8362	9.9730	9.9819	9.3690
59	6.6	20 07.03	1.573	. .	50 01 39.1	6.87	. .	0.8368	9.9729	9.9994	9.4191
67	5.*	21 38.99	2.159	. .	36 04 06.0	6.99	. .	0.8447	9.9718	9.9654	9.3125
81	6.5	23 31.06	1.090	. .	57 46 33.2	7.15	. .	0.8541	9.9705	0.0096	9.4793
87	6.	24 22.38	1.471	. .	52 03 57.9	7.22	— 0.07	0.8583	9.9699	0.0011	9.4531
97	4.0	26 33.18	1.511	+ 0.001	51 27 50.7	7.39	+ 0.10	0.8689	9.9683	9.9989	9.4600
98	4.6	27 07.57	2.228	. .	34 11 18.2	7.44	. .	0.8716	9.9678	9.9448	9.3191
6711	6.6	29 15.10	2.088	. .	38 29 25.8	7.61	. .	0.8816	9.9662	9.9616	9.3735
12	6.4	29 03.49	1.065	— 0.062	58 19 58.5	7.60	— 0.39	0.8807	9.9664	0.0067	9.5085
17	6.5	30 15.06	1.651	. .	48 59 27.3	7.69	. .	0.8863	9.9654	9.9919	9.4618
18	6.*	30 36.67	1.955	. .	42 08 23.8	7.72	. .	0.8878	9.9651	9.9736	9.4123
20	6.8	30 46.67	1.894	. .	43 40 18.0	7.74	. .	0.8885	9.9650	9.9781	9.4256
21	6.5	31 06.52	1.707	. .	47 53 35.6	7.76	. .	0.8900	9.9647	9.9890	9.4582
22	6.*	31 18.82	2.154	+ 0.001	36 40 06.0	7.78	+ 0.01	0.8910	9.9646	9.9535	9.3649
23	6.*	31 05.46	1.550	. .	50 58 09.2	7.76	— 0.19	0.8900	9.9647	9.9924	9.4781
28	6.9	32 33.62	1.907	. .	43 25 37.7	7.88	. .	0.8965	9.9636	9.9765	9.4316
30	7.0	32 34.92	1.608	+ 0.001	49 57 32.9	7.88	+ 0.05	0.8966	9.9636	9.9926	9.4784
31	6.*	32 45.42	1.867	— 0.010	44 25 12.1	7.90	. .	0.8974	9.9634	9.9792	9.4403
34	5.4	33 05.29	1.611	— 0.002	49 55 56.2	7.92	+ 0.23	0.8989	9.9632	9.9922	9.4805
41	6.6	34 28.39	1.662	. .	48 59 43.8	8.10	+ 0.13	0.9049	9.9620	9.9895	9.4805
45	6.0	35 22.37	1.950	+ 0.004	42 31 50.0	8.11	+ 0.04	0.9087	9.9613	9.9722	9.4365
48	6.*	35 52.56	1.347	. .	54 40 49.9	8.15	. .	0.9110	9.9608	9.9984	9.5205
54	5.5	36 58.81	1.842	+ 0.011	45 13 46.6	8.23	+ 0.11	0.9156	9.9599	9.9790	9.4647
6763	6.3	19 38 29.42	+ 1.611	— 0.021	50 14 08.9	+ 8.35	— 0.15	0.9219	9.9586	9.9896	9.5055

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
6763	6.3	38 29.42			14-689						
		h. m. s.	s.	s.	° ′ ″	″	″				
6764	6.2	19 38 32.32	+ 1.612	− 0.003	50 13 41.6	+ 8.36	− 0.15	0.9221	9.9586	9.9896	9.5057
65	6.7	38 46.79	2.109	. .	38 22 28.3	8.38	. .	0.9231	9.9584	9.9563	9.4139
69	6.0	39 34.64	1.999	. .	41 28 26.5	8.44	. .	0.9264	9.9576	9.9665	9.4453
71	5.6	39 46.10	2.156	+ 0.007	37 03 11.9	8.46	+ 0.03	0.9272	9.9575	9.9507	9.4050
77	6.6	41 11.73	2.234	. .	34 42 33.9	8.57	. .	0.9329	9.9562	9.9403	9.3862
79	3.*	41 04.04	1.869	+ 0.005	44 49 35.5	8.56	+ 0.02	0.9324	9.9563	9.9723	9.4784
80	6.2	40 48.44	1.156	+ 0.001	57 43 09.4	8.54	. .	0.9314	9.9566	9.9986	9.5563
84	5.6*	41 40.86	2.274	. .	33 26 17.1	8.61	− 0.43	0.9349	9.9558	9.9348	9.3739
99	6.*	43 47.70	1.755	. .	47 35 58.1	8.78	. .	0.9432	9.9538	9.9807	9.5094
6800	6.9	44 04.36	2.287	. .	33 07 32.7	8.80	. .	0.9443	9.9536	9.9317	9.3797
06	6.8	45 02.06	2.121	+ 0.002	38 23 46.5	8.87	− 0.05	0.9480	9.9527	9.9528	9.4390
13	6.*	46 08.24	2.123	+ 0.001	38 24 06.8	8.96	+ 0.13	0.9522	9.9517	9.9522	9.4432
17	6.*	46 19.89	2.058	. .	40 16 58.0	8.97	. .	0.9529	9.9515	9.9586	9.4614
18	6.5	46 01.69	1.072	. .	59 06 16.5	8.95	. .	0.9518	9.9518	9.9959	9.5832
24	5.6*	47 29.43	1.507	− 0.004	52 40 16.8	9.06	− 0.08	0.9573	9.9504	9.9878	9.5556
30	6.*	48 26.18	1.768	. .	47 36 35.8	9.14	. .	0.9608	9.9495	9.9777	9.5270
47	5.6*	50 43.49	1.234	+ 0.002	57 11 45.7	9.32	− 0.02	0.9692	9.9472	9.9910	9.5916
49	5.6*	51 23.73	2.143	. .	38 09 19.8	9.37	− 0.01	0.9716	9.9465	9.9481	9.4603
51	4.5*	51 36.93	2.252	− 0.003	34 45 08.6	9.39	− 0.02	0.9724	9.9463	9.9346	9.4261
52	5.8	51 20.86	1.074	. .	59 22 42.0	9.36	. .	0.9714	9.9466	9.9921	9.6040
56	5.*	52 23.84	1.556	− 0.003	52 06 28.3	9.45	− 0.01	0.9752	9.9455	9.9835	9.5702
57	5.8	52 53.27	2.082	. .	40 01 58.2	9.48	. .	0.9769	9.9450	9.9538	9.4831
60	6.8	53 00.31	2.147	. .	38 07 22.4	9.49	. .	0.9773	9.9449	9.9470	9.4657
63	6.3	52 53.18	1.192	. .	57 55 14.9	9.48	. .	0.9769	9.9450	9.9899	9.6028
65	6.*	53 19.90	1.640	. .	50 34 01.5	9.52	. .	0.9785	9.9446	9.9802	9.5642
67	5.1	53 32.20	1.151	. .	58 30 45.6	9.53	. .	0.9792	9.9444	9.9898	9.6079
75	5.8	55 20.13	2.198	. .	36 42 04.6	9.67	+ 0.03	0.9854	9.9425	9.9402	9.4597
76	6.*	55 24.82	1.882	. .	45 25 55.6	9.68	. .	0.9857	9.9424	9.9678	9.5363
81	6.*	55 56.74	1.590	+ 0.006	51 42 49.8	9.72	. .	0.9875	9.9419	9.9802	9.5802
95	5.1	19 57 49.35	1.696	+ 0.001	49 45 27.0	9.86	− 0.01	0.9939	9.9399	9.9754	9.5744
6915	5.5	20 01 43.14	2.245	− 0.019	35 37 45.2	10.16	− 0.42	1.0067	9.9356	9.9319	9.4699
18	6.*	01 43.28	1.623	. .	51 28 52.6	10.11	. .	1.0067	9.9356	9.9754	9.5980
24	6.5	02 30.96	1.367	. .	55 58 45.9	10.22	. .	1.0093	9.9347	9.9806	9.6256
28	5.9	02 56.38	1.558	+ 0.027	52 47 48.2	10.25	+ 0.24	1.0106	9.9343	9.9763	9.6096
37	5.*	04 47.20	2.226	. .	36 28 22.4	10.39	+ 0.05	1.0165	9.9322	9.9334	9.4884
59	6.*	09 03.06	1.671	. .	51 05 17.8	10.70	. .	1.0295	9.9272	9.9687	9.6184
62	5.0	09 22.32	1.883	+ 0.003	46 26 18.0	10.73	− 0.02	1.0305	9.9268	9.9596	9.5885
63	6.4	09 30.37	2.018	. .	43 00 02.0	10.74	. .	1.0309	9.9266	9.9510	9.5625
65	4.*	09 41.71	1.888	. .	46 21 46.8	10.75	. .	1.0315	9.9264	9.9592	9.5889
67	5.*	09 51.14	2.239	+ 0.004	36 25 28.7	10.76	+ 0.09	1.0319	9.9262	9.9295	9.5034
69	7.0	09 59.22	2.240	+ 0.001	36 22 21.3	10.77	+ 0.05	1.0323	9.9260	9.9292	9.5033
76	4.5*	10 29.50	1.390	+ 0.010	56 11 08.3	10.81	+ 0.06	1.0338	9.9254	9.9737	9.6512
83	4.5*	11 36.42	1.852	+ 0.002	47 19 52.1	10.89	− 0.01	1.0371	9.9241	9.9607	9.6014
85	6.3	12 05.11	1.742	. .	49 50 54.0	10.93	. .	1.0385	9.9235	9.9641	9.6196
86	6.*	12 28.62	2.132	+ 0.011	39 58 44.7	10.95	− 0.02	1.0396	9.9230	9.9398	9.5454
90	5.*	13 10.77	2.208	. .	37 38 42.8	11.01	− 0.01	1.0417	9.9221	9.9315	9.5254
96	6.3	13 41.40	2.123	+ 0.002	40 20 35.9	11.05	+ 0.01	1.0432	9.9215	9.9400	9.5522
97	6.*	13 47.66	2.242	+ 0.006	36 36 33.5	11.05	. .	1.0434	9.9214	9.9273	9.5168
98	5.5*	13 51.09	2.302	+ 0.001	34 35 35.4	11.06	. .	1.0436	9.9213	9.9195	9.4956
7001	7.	14 24.52	2.182	. .	38 36 49.3	11.10	. .	1.0452	9.9206	9.9339	9.5383
06	7.0	15 07.72	2.242	+ 0.003	36 44 23.6	11.15	+ 0.01	1.0472	9.9197	9.9268	9.5219
07	8.0	14 56.91	1.787	. .	49 06 23.0	11.14	− 0.07	1.0468	9.9199	9.9603	9.6231
08	6.8	15 43.38	2.172	. .	39 00 36.0	11.19	. .	1.0489	9.9189	9.9342	9.5458
22	3.2*	17 44.52	2.151	+ 0.003	39 51 27.3	11.34	+ 0.02	1.0546	9.9163	9.9353	9.5592
27	6.*	18 19.12	2.127	. .	40 37 39.5	11.38	. .	1.0562	9.9156	9.9373	9.5680
29	5.*	18 52.12	2.390	+ 0.003	31 47 15.8	11.42	+ 0.01	1.0577	9.9149	9.9043	9.4771
35	6.7	19 47.36	1.548	. .	54 16 13.1	11.49	. .	1.0602	9.9136	9.9632	9.6674
41	6.9	21 04.64	2.082	. .	42 11 47.5	11.51	. .	1.0636	9.9119	9.9394	9.5887
48	7.3	21 33.85	2.157	. .	39 59 34.3	11.61	. .	1.0649	9.9113	9.9326	9.5708
55	7.3	22 18.10	1.559	. .	54 16 31.4	11.67	. .	1.0669	9.9103	9.9608	9.6742
60	6.4	22 29.47	1.249	. .	59 11 30.6	11.68	. .	1.0674	9.9100	9.9640	9.6992
61	6.*	22 56.42	2.222	− 0.001	38 01 50.9	11.71	− 0.04	1.0686	9.9094	9.9252	9.5561
62	6.0	23 13.07	1.825	+ 0.007	48 58 09.6	11.73	+ 0.03	1.0693	9.9090	9.9526	9.6448
64	6.*	23 22.13	1.451	. .	56 13 37.2	11.74	. .	1.0697	9.9088	9.9614	9.6873
73	6.*	24 34.31	2.286	+ 0.001	36 02 18.7	11.83	. .	1.0729	9.9072	9.9170	9.5403
76	6.8	24 39.19	1.850	. .	48 30 14.6	11.83	. .	1.0731	9.9071	9.9504	9.6454
83	6.4	25 51.58	1.977	+ 0.010	45 30 17.7	11.92	+ 0.18	1.0762	9.9054	9.9434	9.6273
84	6.5	26 14.46	2.276	+ 0.003	36 30 56.6	11.95	. .	1.0772	9.9048	9.9173	9.5495
85	5.*	26 11.36	1.856	+ 0.006	48 31 56.4	11.94	. .	1.0770	9.9049	9.9490	9.6495
86	6.*	26 19.66	1.500	. .	55 38 56.9	11.95	. .	1.0774	9.9047	9.9580	9.6920
91	5.9	27 27.33	1.849	. .	48 57 56.6	12.03	− 0.04	1.0802	9.9031	9.9483	9.6545
7100	6.5	28 31.24	2.085	. .	42 45 58.5	12.10	. .	1.0829	9.9016	9.9344	9.5126
01	7.0	28 32.94	2.143	. .	41 02 48.8	12.11	. .	1.0830	9.9016	9.9298	9.5982
03	5.6*	29 02.42	2.331	− 0.001	34 49 25.3	12.14	− 0.03	1.0842	9.9008	9.9088	9.5388
05	6.*	28 43.21	1.471	. .	56 21 21.2	12.12	. .	1.0834	9.9013	9.9560	9.7016
12	6.*	29 49.00	1.963	. .	46 15 56.2	12.19	. .	1.0862	9.8997	9.9413	9.6529
14	6.5	30 05.60	2.160	. .	40 40 05.6	12.21	. .	1.0868	9.8993	9.9274	9.5987
19	6.7	30 50.52	2.137	. .	41 27 31.6	12.27	+ 0.05	1.0887	9.8992	9.9289	9.6074
20	6.3	31 11.91	1.747	. .	51 25 25.0	12.29	. .	1.0895	9.8977	9.9485	9.6805
31	6.2	32 26.77	2.436	− 0.004	31 08 12.5	12.38	− 0.05	1.0926	9.8959	9.8911	9.5040
7132	6.4	20 32 28.07	+ 2.437	− 0.004	31 05 15.2	+ 12.38	− 0.02	1.0926	9.8958	9.8909	9.5034

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
7153	6.5	20 33 39.60	+ 1.704	. .	52 32 13.5	+ 12.46	. .	1.0955	9.8941	9.9474	9.6930
58	6.0	34 58.80	2.192	. .	40 08 19.0	12.55	. .	1.0986	9.8921	9.9214	9.6058
61	6.7	35 10.15	2.021	. .	45 13 32.7	12.56	. .	1.0991	9.8918	9.9340	9.6481
64	6.*	35 59.03	2.425	+ 0.003	31 51 49.1	12.62	— 0.02	1.1010	9.8905	9.8914	9.5214
66	6.5	35 46.18	1.554	. .	55 33 53.8	12.60	. .	1.1005	9.8909	9.9478	9.7147
67	6.5	36 19.71	2.242	. .	38 38 16.6	12.64	. .	1.1018	9.8900	9.9157	9.5951
α Cyg 71	2.1*	37 10.20	2.042	+ 0.001	44 50 03.6	12.70	0.00	1.1038	9.8887	9.9311	9.6498
74	5.3	37 25.48	2.164	. .	41 16 12.4	12.72	. .	1.1043	9.8883	9.9223	9.6215
76	6.*	37 38.52	1.278	. .	60 03 13.1	12.73	. .	1.1048	9.8880	9.9475	9.7404
82	5.7	38 21.42	1.848	+ 0.006	49 53 30.3	12.78	— 0.02	1.1065	9.8868	9.9390	9.6879
89	7.0	39 10.49	1.493	. .	56 56 10.4	12.83	. .	1.1084	9.8856	9.9448	9.7295
94	4.5*	40 30.09	2.475	. .	30 15 52.0	12.92	+ 0.04	1.1113	9.8835	9.8809	9.5116
98	6.5	40 28.47	1.981	. .	46 50 38.4	12.92	. .	1.1113	9.8835	9.9318	9.6722
ε Cyg 7204	3.2*	41 09.24	2.396	+ 0.031	33 30 10.8	12.97	+ 0.33	1.1128	9.8824	9.8936	9.5527
χ Cyg 13	4.7	42 32.39 40.05	2.333	. .	36 01 55.8 121.1	13.06	. .	1.1159	9.8822	9.9027	9.5833
15	4.5	42 15.14	1.499	. .	57 07 55.1	13.04	— 0.19	1.1152	9.8806	9.9413	9.7374
18	6.2	42 43.70	1.748	— 0.008	52 32 26.1	13.07	— 0.15	1.1163	9.8799	9.9374	9.7139
19	7.0	43 03.48	2.054	. .	45 07 17.5	13.09	. .	1.1170	9.8793	9.9258	9.6653
33	5.6	44 40.81	2.042	+ 0.001	45 39 03.5	13.20	— 0.02	1.1206	9.8767	9.9251	9.6728
41	5.6*	45 38.55	2.117	+ 0.012	43 35 20.8	13.26	+ 0.12	1.1227	9.8750	9.9198	9.6590
43	7.3	45 40.17	1.863	. .	50 19 08.1	13.27	. .	1.1227	9.8750	9.9315	9.7068
53	5.6*	48 49.53	2.118	+ 0.001	43 54 53.1	13.47	+ 0.01	1.1294	9.8697	9.9172	9.6683
54	6.*	48 56.52	2.091	. .	44 42 32.7	13.48	. .	1.1296	9.8695	9.9187	9.6748
59	7.5	49 28.02	2.120	+ 0.002	43 54 45.0	13.51	+ 0.01	1.1307	9.8686	9.9165	9.6697
60	6.8	49 42.16	2.236	. .	40 13 40.9	13.53	. .	1.1312	9.8682	9.9074	9.6392
62	6.5	49 44.01	1.711	. .	54 02 18.2	13.53	+ 0.19	1.1313	9.8681	9.9305	9.7373
68	6.*	51 36.55	§2.023	. .	46 56 21.3	§13.65	. .	1.1352	9.8648	9.9198	9.6967
73	6.7	52 10.25	2.113	. .	44 26 41.1	13.69	. .	1.1363	9.8638	9.9146	9.6794
74	6.2	52 20.54	1.959	. .	48 42 56.4	13.70	. .	1.1366	9.8636	9.9218	9.7103
1 Cyg 77	4.*	American Nautical	Almanac	star.	. . .	. .	. .	1.1370	9.8632	9.9057	9.6490
78	5.5	52 27.70	1.898	+ 0.010	50 14 57.0	13.70	. .	1.1369	9.8633	9.9236	9.7205
81	6.0	52 56.54	1.606	+ 0.003	56 24 23.9	13.73	— 0.02	1.1378	9.8625	9.9279	9.7563
Bac 90	6.0	53 51.00	2.135	. .	43 59 06.6	13.79	. .	1.1397	9.8608	9.9118	9.6792
94	6.0	54 29.70 39.30	1.919	. .	49 58 37.6 106.8	13.84	. .	1.1410	9.8597	9.9208	9.7229
97	6.8	55 09.09	2.268	+ 0.030	39 45 51.9	13.87	+ 0.15	1.1423	9.8585	9.9005	9.6460
1 Cyg 7301	5.6*	55 34.46 44.62	2.037	— 0.005	47 02 01.2 70.6	13.90	— 0.02	1.1431	9.8577	9.9154	9.7053
06	6.*	56 49.02	2.090	— 0.002	45 39 55.9	13.98	. .	1.1455	9.8554	9.9117	9.6978
10	5.6	56 20.42	1.482	. .	58 57 03.0	14.01	. .	1.1446	9.8563	9.9239	9.7753
13	6.4	57 33.38	2.297	. .	39 01 00.9	14.03	. .	1.1470	9.8541	9.8959	9.6438
17	6.8	57 56.18	2.140	. .	44 17 54.7	14.05	. .	1.1477	9.8534	9.9078	9.6896
20	6.0	58 13.82	2.323	+ 0.001	38 09 51.9	14.07	+ 0.03	1.1483	9.8528	9.8929	9.6370
26	7.0	59 11.31	2.242	. .	41 08 06.7	14.13	. .	1.1501	9.8510	9.8996	9.6661
32	5.5	20 59 58.39	1.826	. .	52 47 18.0	14.18	. .	1.1516	9.8495	9.9168	9.7506
ξ Cyg 33	4.*	21 00 23.06 33.95	2.176	+ 0.002	43 25 47.5 112.2	14.20	— 0.01	1.1524	9.8487	9.9032	9.6875
36	. .	American Nautical	Almanac.		. . .	14.26	. .	1.1541	9.8470	9.8846	9.6426
61 Cyg 37	5.3	01 19.27	2.332	+ 0.355	38 08 00.4	14.26	+ 3.05	1.1541	9.8470	9.8895	9.6426
45	5.6*	02 17.63	2.062	— 0.001	47 08 48.2	14.32	— 0.01	1.1559	9.8451	9.9076	9.7190
65	6.	06 23.67	1.850	. .	53 03 12.0	14.57	. .	1.1634	9.8370	9.9084	9.7639
73	6.5	08 25.01	2.407	. .	36 07 05.6	14.69	. .	1.1670	9.8329	9.8760	9.6353
77	6.0	08 37.22	1.530	. .	59 28 22.2	14.70	— 0.02	1.1674	9.8325	9.9064	9.8004
83	7.0	09 31.07	2.294	. .	40 37 43.3	14.76	. .	1.1689	9.8307	9.8866	9.6805
+ Cyg 85	4.*	09 48.17	2.377	+ 0.018	37 30 45.0	14.77	+ 0.45	1.1694	9.8301	9.8785	9.6515
87	7.5	09 36.29	1.530	. .	59 34 56.8	14.76	. .	1.1691	9.8305	9.9050	9.8026
σ Cyg 98	4.5	12 30.37	2.351	. .	38 52 18.5	14.93	+ 0.03	1.1741	9.8244	9.8789	9.6696
99	4.5*	12 46.74	2.462	+ 0.003	34 22 23.2	14.95	. .	1.1746	9.8239	9.8660	9.6241
7401	6.0	13 30.00	1.790	. .	55 16 24.4	14.99	. .	1.1758	9.8223	9.8993	9.7884
02	5.*	13 47.38	2.230	— 0.002	43 25 14.0	15.01	— 0.02	1.1763	9.8217	9.8871	9.7113
11	5.6	15 10.60	2.059	. .	48 58 56.0	15.09	. .	1.1786	9.8187	9.8931	9.7541
17	6.0	15 48.09	1.661	. .	58 05 42.7	15.12	. .	1.1796	9.8174	9.8959	9.8063
31	5.5	17 39.82	2.074	. .	48 51 14.2	15.23	+ 0.08	1.1827	9.8133	9.8895	9.7573
48	6.7	19 46.79	2.003	. .	51 07 13.0	15.35	. .	1.1861	9.8086	9.8886	9.7751
53	6.*	20 40.54	2.446	— 0.001	36 07 41.1	15.40	— 0.02	1.1875	9.8065	9.8622	9.6559
Bac 55	6.*	20 44.26 55.23	2.179	+ 0.015	46 10 24.6 101.7	15.40	+ 0.03	1.1876	9.8064	9.8822	9.7436
62	5.0	22 15.56	2.440	. .	36 34 27.1	15.49	. .	1.1900	9.8029	9.8615	9.6630
65	6.*	22 47.57	2.548	. .	31 40 41.8	15.52	. .	1.1908	9.8017	9.8463	9.6089
68	5.8	22 37.63	1.972	. .	52 21 22.0	15.51	. .	1.1905	9.8021	9.8848	9.7870
69	7.6	22 55.38	2.199	+ 0.005	45 52 22.8	15.52	. .	1.1910	9.8014	9.8792	9.7448
76	6.4	23 58.24	1.659	. .	59 12 24.0	15.58	. .	1.1926	9.7988	9.8823	9.8245
77	7.0	24 30.75	2.267	. .	43 47 30.3	15.61	. .	1.1935	9.7976	9.8736	9.7315
80	5.*	24 50.17	2.204	+ 0.003	45 59 24.3	15.63	+ 0.11	1.1939	9.7969	9.8762	9.7486
Bac 83	6.	26 10.57	1.991	. .	52 24 30.4	15.70	. .	1.1960	9.7937	9.8794	9.7928
88	6.8	27 04.01 14.14	2.026	. .	51 38 34.8 113.9	15.75	+ 0.07	1.1973	9.7916	9.8777	9.7896
89	6.8	27 15.36	2.011	. .	52 04 07.8	15.76	. .	1.1976	9.7911	9.8776	9.7924
94	6.8	27 25.70	1.704	+ 0.019	58 51 56.9	15.77	— 0.03	1.1978	9.7907	9.8774	9.8281
95	6.	27 32.24	1.647	. .	59 54 30.7	15.78	. .	1.1980	9.7904	9.8760	9.8330
96	6.5	27 46.57	2.159	. .	47 53 32.2	15.79	. .	1.1984	9.7899	9.8741	9.7666
7501	6.5	28 36.97	2.242	. .	45 18 00.2	15.84	. .	1.1996	9.7878	9.8700	9.7492
β Cyg 03	4.5*	29 16.72 27.97	2.253	— 0.003	45 02 23.5 102.3	15.87	— 0.10	1.2006	9.7862	9.8682	9.7482
05	5.*	29 40.26	2.435	+ 0.012	37 58 28.3	15.89	+ 0.10	1.2011	9.7853	9.8557	9.6881
12	6.4	30 08.89	2.062	. .	51 08 31.1	15.92	. .	1.2018	9.7841	9.8727	9.7910
7521	5.*	21 31 56.35	+ 2.399	+ 0.001	39 51 09.8	+ 16.01	+ 0.01	1.2044	9.7795	9.8566	9.7090

§ Mädler's precessions are quite wrong.

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
7524	6.4	21 32 44.23	+ 2.428	. .	38 45 19.4	+ 16.05	. .	1.2056	9.7776	9.8534	9.7000
30	6.5	33 29.07	1.994	. .	53 28 46.0	16.09	. .	1.2066	9.7757	9.8679	9.8095
44	5.2	35 16.80	2.343	+ 0.005	42 42 24.6	16.19	+ 0.02	1.2091	9.7711	9.8569	9.7384
45	6.2	35 05.02	1.859	. .	56 55 27.5	16.17	. .	1.2088	9.7716	9.8645	9.8299
48	7.0	35 40.55	2.162	. .	49 06 58.3	16.21	. .	1.2097	9.7701	9.8629	9.7860
54	6.3	36 32.64	2.408	+ 0.001	40 14 17.4	16.25	— 0.06	1.2109	9.7678	9.8510	9.7189
55	6.0	36 34.85	1.981	. .	54 18 15.1	16.25	. .	1.2110	9.7676	9.8626	9.8184
59	5.9	37 21.19	2.405	+ 0.001	40 30 25.6	16.29	. .	1.2120	9.7657	9.8504	9.7224
60	5.1	37 39.45	2.123	— 0.001	50 37 11.1	16.31	. .	1.2124	9.7648	9.8603	9.7984
65	5.1	38 05.11	2.406	. .	40 35 03.5	16.33	+ 0.02	1.2130	9.7637	9.8495	9.7231
66	5.6*	38 15.39	2.472	+ 0.001	37 42 43.6	16.34	. .	1.2132	9.7633	9.8438	9.6976
82	Var.	39 40.89	1.832	. .	58 12 26.4	16.41	. .	1.2151	9.7594	9.8556	9.8423
89	7.1	40 48.30	2.105	. .	51 41 32.0	16.47	. .	1.2166	9.7562	9.8553	9.8091
93	6.5	41 18.65	2.375	. .	42 29 01.0	16.49	. .	1.2172	9.7550	9.8477	9.7446
98	4.5*	42 10.58	2.209	+ 0.001	48 43 53.7	16.53	— 0.02	1.2184	9.7526	9.8521	9.7922
7602	7.7	43 08.09	2.476	. .	38 22 35.7	16.58	. .	1.2196	9.7500	9.8384	9.7103
05	6.	43 44.07	1.768	— 0.001	60 06 46.2	16.61	— 0.01	1.2204	9.7483	9.8463	9.8563
12	6.7	45 36.50	2.120	. .	52 06 50.2	16.70	. .	1.2228	9.7430	9.8471	9.8178
14	6.5	45 54.75	2.474	. .	38 57 06.7	16.72	. .	1.2232	9.7421	9.8354	9.7194
31	6.	47 47.60	2.023	+ 0.012	55 12 34.5	16.82	— 0.03	1.2255	9.7367	9.8423	9.8378
36	7.2	48 54.26	2.013	. .	55 37 24.0	16.86	— 0.02	1.2269	9.7335	9.8400	9.8413
37	6.5	48 57.02	2.097	— 0.001	53 24 31.6	16.86	— 0.05	1.2269	9.7333	9.8408	9.8284
42	7.2	50 33.19	2.110	+ 0.021	53 20 27.0	16.94	+ 0.05	1.2288	9.7286	9.8379	9.8310
43	6.2	50 41.12	2.010	. .	56 01 11.5	16.94	. .	1.2290	9.7282	9.8363	9.8455
46	6.5	51 06.92	2.137	. .	52 39 02.2	16.96	. .	1.2295	9.7269	9.8370	9.8277
68	6.7	55 12.02	2.003	+ 0.010	57 03 37.4	17.15	— 0.02	1.2343	9.7144	9.8266	9.8560
76	5.3	57 15.74	2.189	. .	52 16 48.1	17.25	. .	1.2366	9.7078	9.8255	9.8337
79	6.8	57 36.39	2.454	. .	42 12 41.6	17.26	. .	1.2370	9.7067	9.8218	9.7622
81	6.0	57 54.10	2.414	. .	44 02 53.0	17.27	. .	1.2374	9.7058	9.8228	9.7774
83	6.*	57 52.46	2.009	— 0.003	57 23 51.7	17.27	— 0.01	1.2373	9.7059	9.8207	9.8607
95	6.5	59 59.16	2.364	. .	46 37 36.0	17.37	. .	1.2397	9.6990	9.8206	9.7990
96	6.*	21 59 49.61	1.948	+ 0.005	59 12 52.4	17.36	. .	1.2395	9.6995	9.8144	9.8714
98	6.6	22 00 08.15	1.948	. .	59 15 39.3	17.37	. .	1.2398	9.6985	9.8136	9.8719
7705	4.7	00 58.29	2.421	. .	44 24 25.6	17.41	. .	1.2408	9.6958	9.8177	9.7836
18	6.7	02 57.10	2.016	. .	58 13 52.5	17.49	. .	1.2429	9.6891	9.8089	9.8702
21	5.7	03 41.36	2.656	— 0.003	32 33 45.4	17.52	. .	1.2436	9.6866	9.7974	9.6722
27	6.9	03 44.37	2.367	. .	47 19 21.0	17.53	. .	1.2437	9.6865	9.8138	9.8089
31	3.8	04 26.18	2.659	. .	32 33 55.0	17.56	. .	1.2444	9.6841	9.7964	9.6733
36	6.5	04 21.86	2.009	. .	58 40 52.4	17.55	. .	1.2444	9.6843	9.8052	9.8738
37	7.6	04 34.89	2.476	. .	42 34 24.5	17.56	. .	1.2446	9.6836	9.8102	9.7727
38	8.0	04 45.04	2.030	. .	58 14 21.0	17.57	. .	1.2448	9.6830	9.8049	9.8722
43	6.7	05 51.97	2.487	. .	42 24 59.3	17.62					
46	6.0	06 18.60	2.307	+ 0.018	50 12 24.2	17.64	+ 0.06	1.2464	9.6776	9.8085	9.8298
49	4.3*	06 31.10	2.071	+ 0.002	57 35 07.6	17.64	— 0.01	1.2466	9.6768	9.8019	9.8709
53	5.8	07 16.02	2.645	. .	33 59 21.9	17.68	. .	1.2473	9.6742	9.7950	9.6926
54	6.0	07 18.11	2.127	+ 0.023	56 13 06.3	17.68	+ 0.15	1.2474	9.6741	9.8019	9.8649
55	5.6	07 16.28	2.029	+ 0.007	58 47 52.4	17.68	— 0.06	1.2474	9.6742	9.7921	9.8773
65	5.*	08 30.78	2.563	. .	39 05 42.7	17.73	. .	1.2486	9.6698	9.8004	9.7462
70	6.	09 29.21	2.506	. .	42 20 04.7	17.77	. .	1.2496	9.6663	9.8014	9.7757
77	4.8	10 31.38	2.606	— 0.004	37 07 36.7	17.81	+ 0.01	1.2506	9.6625	9.7948	9.7292
78	5.1	10 26.12	2.145	+ 0.056	56 25 14.5	17.80	+ 0.03	1.2505	9.6628	9.7947	9.8690
82	6.5	11 55.73	2.150	. .	56 35 48.7	17.86	. .	1.2520	9.6573	9.7910	9.8714
87	7.5	13 48.28	2.305	. .	52 01 49.1	17.94	. .	1.2538	9.6503	9.7919	9.8483
99	6.7	15 30.97	2.189	. .	56 17 23.5	18.00	. .	1.2554	9.6437	9.7832	9.8733
7800	5.0	15 51.77	2.465	. .	45 54 27.4	18.02	. .	1.2557	9.6424	9.7904	9.8098
03	8.0 (7.0)	16 41.66	2.526	. .	43 06 57.6	18.05	. .	1.2565	9.6391	9.7885	9.7890
12	6.7	18 23.54	2.200	. .	56 39 09.6	18.11	. .	1.2580	9.6324	9.7759	9.8777
13	7.2	18 25.42	2.242	. .	55 19 52.7	18.11	. .	1.2580	9.6323	9.7778	9.8710
15	4.5§	18 38.76	2.349	. .	51 36 11.8	18.12	— 0.19	1.2582	9.6314	9.7817	9.8502
20	5.*	19 26.90	2.421	— 0.003	48 50 34.4	18.15	— 0.03	1.2589	9.6282	9.7820	9.8335
24	7.0	20 03.14	2.383	. .	50 37 14.5	18.18	. .	1.2595	9.6257	9.7794	9.8465
25	7.6	20 22.02	2.406	. .	49 46 01.6	18.19	. .	1.2598	9.6244	9.7794	9.8404
43	6.0	24 18.83	2.733	+ 0.002	31 56 00.4	18.33	— 0.01	1.2631	9.6080	9.7654	9.6844
45	5.*	24 19.32	2.489	— 0.002	47 04 02.5	18.33	— 0.01	1.2632	9.6079	9.7726	9.8256
46	6.5	24 28.72	2.337	. .	53 36 22.8	18.34	. .	1.2633	9.6073	9.7659	9.8669
47	7.5	24 30.98	2.213	+ 0.008	57 45 51.8	18.34	— 0.04	1.2633	9.6071	9.7587	9.8885
48	4.*§	24 31.92	2.213	+ 0.002	57 46 32.3	18.34	— 0.02	1.2633	9.6070	9.7586	9.8885
50	5.*	25 05.57	2.578	— 0.002	42 28 59.1	18.36	. .	1.2638	9.6046	9.7721	9.7912
55	4.*	26 08.61	2.445	+ 0.014	49 38 24.8	18.39	— 0.01	1.2647	9.6001	9.7667	9.8445
58	6.2	26 54.92	2.641	. .	39 08 14.6	18.42	. .	1.2653	9.5967	9.7678	9.7633
71	6.3	28 49.67	2.304	. .	55 58 41.8	18.49	. .	1.2668	9.5882	9.7512	9.8832
79	6.6¶	30 18.55	2.658	. .	38 58 51.3	18.54	— 0.14	1.2680	9.5814	9.7614	9.7646
80	6.1¶	30 18.71	2.658	. .	38 59 16.9	18.53	+ 0.01	1.2680	9.5814	9.7614	9.7646
82	6.3	30 41.93	2.478	. .	49 25 25.9	18.55	. .	1.2683	9.5796	9.7564	9.8467
88	5.*	32 14.52	2.456	— 0.003	50 54 00.5	18.60	— 0.12	1.2695	9.5724	9.7510	9.8572
94	6.8	32 53.01	2.583	. .	44 32 01.7	18.62	. .	1.2700	9.5694	9.7555	9.8138
01	5.*	33 39.25	2.681	+ 0.001	38 23 59.9	18.65	— 0.01	1.2706	9.5656	9.7547	9.7616
06	5.*	35 02.02	2.609	+ 0.006	43 37 27.1	18.69	. .	1.2716	9.5591	9.7513	0.8082
13	7.3	35 42.68	2.601	. .	44 21 20.7	18.71	. .	1.2721	9.5557	9.7494	9.8145
15	5.3	35 53.01	2.674	+ 0.003	39 34 22.9	18.72	. .	1.2722	9.5549	9.7506	9.7742
7917	6.1	22 36 00.72	+ 2.656	. .	40 53 37.9	+ 18.72	. .	1.2722	9.5543	9.7502	9.7861

§ Variable. ¶ Magnitudes from Radcliffe. Argelander gives 6* (U. N.) and 5.7 (D. M.) for both, seen as one star.

No.	Mag.	Right ascension, 1875.0.			Annual precession.	Proper motion.	Declination, 1875.0.			Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h.	m.	s.	s.	s.	°	′	″	″	″				
7931	6.3	22	38	26.78	+ 2.696	. .	38	48	39.5	+ 18.80	. .	1.2741	9.5420	9.7454	9.7690
32	6.*		38	31.15	2.664	. .	41	09	49.4	18.80	+ 0.01	1.2741	9.5417	9.7449	9.7903
48	6.0		40	37.74	2.634	+ 0.015	43	53	15.8	18.86	+ 0.04	1.2756	9.5308	9.7388	9.8143
50	6.5		40	53.11	2.610	. .	45	33	29.9	18.87	. .	1.2757	9.5294	9.7367	9.8273
53	6.3		42	25.52	2.365	+ 0.006	57	49	25.4	18.91	. .	1.2768	9.5212	9.7094	9.9022
61	5.9		44	36.81	2.449	. .	55	14	23.3	18.98	. .	1.2782	9.5092	9.7099	9.8907
62	6.*		44	43.64	2.692	. .	41	17	31.0	18.98	− 0.01	1.2783	9.5086	9.7315	9.7966
72	6.*		46	23.91	2.682	+ 0.010	42	38	54.3	19.03	+ 0.01	1.2794	9.4992	9.7267	9.8081
78	6.7		47	28.76	2.728	. .	39	30	13.6	19.06	. .	1.2800	9.4930	9.7265	9.7814
83	6.		48	04.66	2.671	. .	44	05	06.0	19.07	. .	1.2804	9.4895	9.7213	9.8207
84	5.8		48	22.90	2.730	. .	39	42	38.4	19.08	. .	1.2806	9.4878	9.7245	9.7849
94	6.*		50	41.31	2.726	− 0.001	40	56	13.7	19.14	+ 0.01	1.2820	9.4740	9.7185	9.7962
95	4.6		50	57.39	2.614	. .	49	03	59.3	19.15	. .	1.2821	9.4720	9.7062	9.8582
99	6.		51	33.26	2.634	. .	48	00	59.7	19.16	. .	1.2825	9.4687	9.7067	9.8515
8013	6.5		54	01.98	2.436	. .	59	08	43.3	19.23	. .	1.2839	9.4531	9.6686	9.9155
23	4.3*		56	10.34	2.744	+ 0.002	41	39	15.9	19.28	− 0.03	1.2851	9.4392	9.7049	9.8055
24	6.1		56	13.86	2.517	+ 0.001	56	26	02.6	19.28	− 0.01	1.2851	9.4388	9.6710	9.8041
28	6.*		56	51.19	2.742	+ 0.003	42	05	08.1	19.30	− 0.03	1.2855	9.4346	9.7027	9.8095
33	6.7		58	13.66	2.460	. .	59	46	21.6	19.33	. .	1.2862	9.4253	9.6518	9.9206
36	5.6*	22	58	34.44	2.658	+ 0.016	49	22	22.3	19.34	+ 0.16	1.2864	9.4230	9.6844	9.8644
54	5.3	23	01	20.26	2.513	+ 0.005	58	44	39.2	19.40	− 0.02	1.2878	9.4034	9.6450	9.9175
56	6.5		01	35.14	2.729	+ 0.006	45	23	28.6	19.40	− 0.16	1.2879	9.4016	9.6850	9.8382
58	6.*		01	56.54	2.728	. .	45	42	43.5	19.41	− 0.05	1.2881	9.3990	9.6834	9.8407
59	6.0		02	04.82	2.692	+ 0.013	48	36	54.1	19.41	+ 0.12	1.2881	9.3980	9.6763	9.8612
75	6.*		04	23.78	2.544	+ 0.005	58	39	17.0	19.46	. .	1.2892	9.3807	9.6344	9.9186
76	6.0		04	40.80	2.774	− 0.021	42	52	23.2	19.47	. .	1.2894	9.3785	9.6818	9.8200
82	5.*		06	49.61	2.721	+ 0.008	48	43	24.9	19.52	+ 0.08	1.2904	9.3616	9.6618	9.8642
83	6.*		07	16.30	2.611	+ 0.249	56	28	41.5	19.52	+ 0.27	1.2906	9.3581	9.6377	9.9094
8107	6.		11	00.64	2.701	+ 0.007	52	32	21.8	19.60	− 0.30	1.2922	9.3266	9.6358	9.8897
10	6.		11	23.78	2.795	. .	44	29	04.5	19.60	. .	1.2923	9.3231	9.6599	9.8357
14	5.6*		11	57.11	2.757	+ 0.003	48	19	56.7	19.61	. .	1.2925	9.3183	9.6473	9.8637
15	6.5		12	04.14	2.795	. .	44	48	24.6	19.62	. .	1.2926	9.3172	9.6572	9.8384
18	6.*		12	27.70	2.831	− 0.003	41	05	28.1	19.62	− 0.02	1.2927	9.3137	9.6650	9.8083
25	6.*		13	40.56	2.774	+ 0.001	47	56	23.4	19.64	+ 0.06	1.2932	9.3026	9.6432	9.8617
26	6.5		13	49.64	2.777	+ 0.019	47	41	46.4	19.65	+ 0.03	1.2933	9.3013	9.6435	9.8601
28	5.9		13	55.60	2.836	+ 0.005	41	23	38.8	19.65	+ 0.03	1.2933	9.3003	9.6594	9.8115
35	6.3		14	49.34	2.823	. .	43	26	00.0	19.66	. .	1.2937	9.2919	9.6530	9.8288
36	6.*		14	51.41	2.870	+ 0.010	37	30	00.4	19.67	− 0.08	1.2937	9.2916	9.6659	9.7760
39	7.3		15	16.92	2.869	− 0.003	37	53	53.4	19.67	. .	1.2938	9.2875	9.6642	9.7799
41	6.*		15	48.88	2.916	. .	31	07	40.3	19.68	− 0.03	1.2940	9.2824	9.6725	9.7053
53	6.0		16	58.37	2.647	+ 0.001	59	26	54.0	19.70	− 0.01	1.2945	9.2710	9.5812	9.9274
56	6.7		17	39.12	2.918	+ 0.024	31	50	37.9	19.71	− 0.05	1.2947	9.2642	9.6680	9.7148
58	7.0		18	27.32	2.702	+ 0.004	56	50	58.5	19.72	. .	1.2950	9.2559	9.5891	9.9157
59	6.*		18	43.78	2.923	. .	31	41	54.7	19.73	. .	1.2951	9.2531	9.6658	9.7134
71	6.*		21	06.12	2.866	+ 0.007	42	13	26.9	19.77	+ 0.03	1.2959	9.2277	9.6383	9.8211
88	5.*		24	15.92	2.741	. .	57	51	35.6	19.81	. .	1.2969	9.1911	9.5591	9.9225
95	6.*		25	08.74	2.910	+ 0.022	38	32	59.0	19.82	− 0.05	1.2971	9.1804	9.6372	9.7896
8206	6.*		27	45.18	2.960	+ 0.002	30	38	07.3	19.85	− 0.02	1.2977	9.1469	9.6482	9.7028
11	6.		28	27.70	2.953	+ 0.002	32	48	21.5	19.86	+ 0.04	1.2980	9.1372	9.6425	9.7297
12	6.*		28	30.77	2.920	− 0.002	39	32	51.5	19.86	− 0.03	1.2980	9.1366	9.6251	9.7998
23	6.3¶		31	25.67	2.911	. .	43	44	16.8	19.90	. .	1.2988	9.0946	9.6015	9.8363
24	4.*		31	27.04	2.900	+ 0.016	45	46	50.4	19.90	− 0.45	1.2988	9.0943	9.5929	9.8519
29	4.*		32	00.54	2.922	. .	42	34	34.5	19.90	+ 0.03	1.2989	9.0858	9.6041	9.8270
31	5.7		33	05.07	2.886	− 0.002	49	46	46.9	19.92	− 0.01	1.2992	9.0688	9.5678	9.8798
37	4.*		34	15.23	2.928	+ 0.004	43	33	31.5	19.93	+ 0.01	1.2994	9.0496	9.5926	9.8362
45	6.5		36	05.68	2.934	. .	44	17	58.3	19.94	. .	1.2998	9.0175	9.5835	9.8417
52	6.5		37	00.68	2.897	. .	52	27	32.9	19.95	− 0.02	1.3000	9.0005	9.5363	9.8970
61	5.*		39	50.62	2.951	. .	45	43	35.0	19.98	− 0.02	1.3005	8.9437	9.5632	9.8532
68	5.*		40	57.20	2.893	+ 0.006	57	57	21.0	19.98	+ 0.06	1.3007	8.9191	9.4780	9.9267
80	6.5		42	46.68	2.902	. .	59	17	01.1	19.99	. .	1.3009	8.8750	9.4565	9.9331
82	6.8		43	03.98§§	2.912	+ 0.011	58	16	06.8	20.00	− 0.04	1.3010	8.8683	9.4639	9.9285
89	6.8		44	07.90	2.957	. .	50	55	39.3	20.00	. .	1.3011	8.8400	9.5148	9.8890
8307	7.0		47	17.95	2.980	. .	50	49	37.2	20.02	. .	1.3015	8.7434	9.5011	9.8888
10	5.*		48	08.72	2.965	. .	56	48	13.7¶	20.03	− 0.01	1.3016	8.7135	9.4484	9.9220
16	6.5		49	14.52	2.991	. .	52	02	19.7	20.03	. .	1.3017	8.6713	9.4829	9.8963
17	7.5		49	18.36	2.976	. .	56	42	58.8	20.03	. .	1.3017	8.6689	9.4427	9.9217
22	6.*		50	50.79	2.994	− 0.004	55	00	37.0	20.04	− 0.02	1.3018	8.6013	9.4495	9.9131
26	6.7		51	47.79	3.015	. .	49	44	35.5	20.04	+ 0.23	1.3019	8.5537	9.4881	9.8823
30	5.*		52	40.50	3.010	− 0.001	55	03	33.3	20.04	− 0.01	1.3019	8.5047	9.4389	9.9135
45	6.*		55	20.55	3.047	. .	41	40	15.9	20.05	. .	1.3021	8.3079	9.5284	9.8226
64	6.5		58	28.79	3.057	. .	57	50	09.1	20.05	− 0.06	1.3021	7.8215	9.6414	9.9276
8372	6.5	23	59	44.02	+ 3.068	+ 0.034	57	44	22.6	+ 20.05	+ 0.05	1.3022	7.0650	9.5657	9.9272

§ Proper motion in right ascension doubtful; without it the right ascension for 1875.0 = $23^h\ 43^m\ 03^s.75$.

¶ This is Argelander's value reduced to Pulkowa; I am inclined to think that there is no proper motion, and that the declination should be 56° 48′ 14″.1.

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
7	2.3*	0 02 31.08	+ 3.095	+ 0.070	58 27 35.6	+ 20.05	− 0.20	1.3021	8.0408 n	9.3377	9.9305
13	7.7	03 33.77	3.092	. .	45 41 43.7	20.05	. .	1.3021	8.1916 n	9.4653	9.8546
16	5.6*	03 49.82	3.094	+ 0.003	45 22 35.3	20.05	. .	1.3021	8.2230 n	9.4667	9.8523
18	7.3	04 01.52	3.110	. .	58 58 39.1	20.05	. .	1.3021	8.2442 n	9.3193	9.9329
28	6.*	07 01.66	3.106	− 0.010	40 20 43.2	20.05	− 0.13	1.3020	8.4864 n	9.4926	9.8110
51	6.0	10 33.64	3.138	. .	47 15 09.3	20.03	. .	1.3017	8.6634 n	9.4161	9.8654
52	4.5	10 33.87	3.119	− 0.005	37 59 15.7	20.03	− 0.02	1.3017	8.6635 n	9.4964	9.7888
54	6.5	11 05.92	3.135	. .	50 44 18.8	20.03	. .	1.3016	8.6850 n	9.3749	9.8884
58	4.5*	11 45.04	3.121	− 0.006	36 05 31.9	20.03	− 0.03	1.3016	8.7115 n	9.5056	9.7696
60	5.9	12 07.10	3.137	+ 0.001	43 05 48.7	20.02	+ 0.01	1.3015	8.7230 n	9.4483	9.8346
67	6.*	14 32.46	3.135	. .	37 16 33.7	20.01	. .	1.3013	8.8021 n	9.4869	9.7814
78	6.5	17 26.64	3.168	. .	43 34 18.0	19.99	. .	1.3009	8.8811 n	9.4182	9.8371
79	6.0	17 31.98	3.199	. .	51 19 37.3	19.99	. .	1.3009	8.8833 n	9.3252	9.8912
83	6.0	18 21.09	3.209	. .	52 21 14.0	19.99	− 0.02	1.3008	8.9030 n	9.3047	9.8972
92	6.5	19 49.69	3.241	. .	55 56 55.9	19.98	+ 0.02	1.3005	8.9365 n	9.2341	9.9165
100	5.5	21 30.69	3.191	. .	43 42 11.0	19.96	. .	1.3002	8.9713 n	9.3962	9.8375
20	6.0	24 47.47	3.164	. .	32 53 29.2	19.93	. .	1.2996	9.0333 n	9.4853	9.7323
21	5.*	24 53.07	3.269	+ 0.004	53 50 55.0	19.93	− 0.01	1.2996	9.0349 n	9.2268	9.9045
23	7.4	25 19.31	3.268	. .	53 07 28.6	19.93	. .	1.2995	9.0424 n	9.2360	9.9004
46	6.*	29 11.34	3.300	+ 0.002	53 28 45.3	19.89	− 0.01	1.2986	9.1039 n	9.1935	9.9015
48	6.0	29 21.77	3.362	. .	59 38 14.5	19.89	. .	1.2986	9.1065 n	9.0377	9.9324
52	5.4	29 59.27	3.238	. .	43 47 55.0	19.88	. .	1.2984	9.1155 n	9.3480	9.8364
53	4.*	30 00.81	3.296	+ 0.005	53 12 31.1	19.88	− 0.02	1.2984	9.1160 n	9.1911	9.8993
55	4.*	30 12.40	3.185	. .	33 01 51.6	19.88	+ 0.01	1.2984	9.1187 n	9.4656	9.7327
58	6.*	30 39.76	3.195	. .	34 42 41.4	19.87	. .	1.2983	9.1252 n	9.4482	9.7516
65	6.0	32 15.77	3.284	. .	48 40 01.5	19.85	. .	1.2978	9.1461 n	9.2587	9.8712
66	3.4*	32 38.82	3.181	+ 0.011	30 10 35.2	19.85	− 0.09	1.2977	9.1522 n	9.4825	9.6969
69	Var.	American Nautical	Almanac	star. .	. . .	19.84	. .	1.2975	9.1624 n	9.0908	9.9132
73	5.*	34 20.92	3.231	. .	38 46 20.5	19.83	. .	1.2973	9.1741 n	9.3888	9.7918
80	6.*	35 05.92	3.312	− 0.001	49 49 36.3	19.82	+ 0.04	1.2970	9.1834 n	9.2131	9.8780
81	7.0	35 13.49	3.243	− 0.004	40 00 16.9	19.82	+ 0.02	1.2970	9.1850 n	9.3691	9.8030
82	6.5	35 20.29	3.400	. .	58 04 03.9	19.81	− 0.01	1.2970	9.1863 n	8.9962	9.9236
89	6.*	36 33.47	3.293	. .	46 20 25.8	19.80	− 0.03	1.2966	9.2010 n	9.2664	9.8539
97	5.8	37 30.12	3.306	. .	47 10 43.0	19.78	. .	1.2963	9.2119 n	9.2442	9.8595
98	5.*	37 45.93	3.311	+ 0.002	49 35 59.5	19.78	. .	1.2962	9.2149 n	9.2342	9.8624
201	5.8	38 10.44	3.382	. .	54 32 12.8	19.77	. .	1.2961	9.2196 n	9.0668	9.9048
18	4.3*	41 32.83	3.444	+ 0.138	57 09 07.6	19.72	− 0.48	1.2950	9.2560 n	8.9236	9.9172
19	5.*	41 45.36	3.362	+ 0.002	50 17 09.0	19.72	− 0.03	1.2949	9.2581 n	9.1394	9.8788
27	4.5*	42 55.47	3.283	− 0.001	40 23 52.8	19.70	− 0.01	1.2945	9.2700 n	9.3218	9.8040
26	6.5	42 37.46	3.337	. .	47 04 58.2	19.71	. .	1.2946	9.2670 n	9.2042	9.8572
32	6.7	43 48.90	3.383	+ 0.018	50 49 37.1	19.69	. .	1.2942	9.2787 n	9.1030	9.8815
35	6.7	44 26.42	3.388	. .	50 53 27.8	19.68	. .	1.2939	9.2849 n	9.0940	9.8816
44	5.0	47 35.57	3.517	− 0.006	58 17 41.4	19.62	− 0.07	1.2927	9.3146 n	8.7202	9.9204
45	6.5	47 59.52	3.380	. .	48 00 01.4	19.62	. .	1.2926	9.3178 n	9.1328	9.8615
54	5.0	49 14.30	3.536	. .	58 30 20.4	19.59	. .	1.2921	9.3288 n	8.6521	9.9217
55	6.3	49 15.83	3.559	. .	59 41 07.6	19.59	. .	1.2920	9.3290 n	8.5421	9.9260
59	4.*	49 49.10	3.295	+ 0.006	37 49 15.3	19.58	+ 0.04	1.2918	9.3338 n	9.3233	9.7773
83	6.0	55 53.02	3.348	− 0.005	40 40 22.5	19.46	+ 0.01	1.2891	9.3828 n	9.2318	9.8010
85	5.5	55 58.43	3.266	− 0.001	31 07 57.7	19.46	− 0.03	1.2891	9.3835 n	9.3918	9.7004
90	7.0	56 54.55	3.515	− 0.014	53 32 04.3	19.44	− 0.07	1.2886	9.3905 n	9.7790	9.8918
97	6.5	57 34.57	3.343	. .	39 19 15.0	19.42	. .	1.2883	9.3955 n	9.2508	9.7880
310	7.2	59 18.94	3.281	+ 0.003	31 30 43.6	19.38	− 0.01	1.2874	9.4081 n	9.3732	9.7035
14	6.*	0 59 57.98	3.552	+ 0.394	54 18 21.2	19.37	− 1.57	1.2871	9.4128 n	8.6339	9.8946
18	5.*	1 00 50.60	3.401	+ 0.013	43 16 31.1	19.35	− 0.08	1.2867	9.4189 n	9.1337	9.8205
21	6.9	01 06.51	3.284	+ 0.016	31 20 40.0	19.34	− 0.04	1.2865	9.4207 n	9.3682	9.7007
30	4.5*	02 15.04	3.450	− 0.005	46 34 28.5	19.32	− 0.01	1.2859	9.4286 n	9.0145	9.8449
34	2.3*	02 44.29	3.324	+ 0.018	34 57 26.6	19.31	− 0.14	1.2857	9.4319 n	9.3026	9.7416
37	6.*	03 13.19	3.392	− 0.013	41 24 57.5	19.29	− 0.04	1.2854	9.4352 n	9.1621	9.8033
39	4.5*	03 30.08	3.583	+ 0.025	54 29 02.6	19.29	− 0.05	1.2853	9.4370 n	8.4675	9.8936
43	6.*	04 09.15	3.350	− 0.001	37 03 30.9	19.27	. .	1.2849	9.4413 n	9.2547	9.7628
45	5.	04 13.43	3.291	+ 0.001	30 45 33.6	19.27	. .	1.2849	9.4418 n	9.3644	9.6915
52	6.5	05 20.17	3.443	. .	44 40 18.3	19.24	. .	1.2843	9.4491 n	9.0147	9.8291
57	7.3	05 56.29	3.303	. .	31 24 42.0	19.23	. .	1.2839	9.4530 n	9.3471	9.6988
77	7.0	09 18.65	3.433	. .	42 16 47.4	19.14	. .	1.2820	9.4740 n	9.0815	9.8077
90	7.9	12 00.97	3.721	. .	57 32 59.9	19.07	. .	1.2804	9.4901 n	8.4474 n	9.9045
91	5.*	12 14.00	3.724	+ 0.003	57 34 24.4	19.06	− 0.02	1.2802	9.4913 n	8.4622 n	9.9044
404	5.*	14 59.18	3.498	+ 0.001	44 52 22.7	18.99	− 0.03	1.2785	9.5070 n	8.9070	9.8249
09	6.*	16 31.91	3.402	+ 0.008	37 03 42.0	18.95	− 0.02	1.2775	9.5156 n	9.1724	9.7564
16	3.*	17 39.22	3.828	+ 0.040	59 35 04.8	18.91	− 0.04	1.2767	9.5216 n	8.8260 n	9.9103
25	6.0	18 57.89	3.489	+ 0.007	42 48 30.4	18.87	− 0.09	1.2758	9.5286 n	8.9483	9.8059
32	5.*	20 11.04	3.525	+ 0.033	44 45 37.4	18.84	− 0.10	1.2750	9.5350 n	8.8244	9.8205
41	6.*	22 36.70	3.565	− 0.001	46 21 41.5	18.76	− 0.06	1.2733	9.5474 n	8.6451	9.8307
56	6.0	25 46.64	3.872	− 0.004	58 35 21.0	18.66	− 0.05	1.2710	9.5630 n	8.9339 n	9.9000
65	6.*	27 03.87	3.439	. .	36 35 44.3	18.62	. .	1.2700	9.5692 n	9.1048	9.7432
74	6.4	28 49.27	3.634	− 0.001	48 05 00.1	18.57	− 0.03	1.2687	9.5774 n	7.9367	9.8382
80	4.5*	29 27.92	3.510	− 0.015	40 46 46.7	18.54	− 0.38	1.2682	9.5804 n	8.9031	9.7811
82	6.*	29 58.15	3.869	. .	57 20 21.8	18.53	. .	1.2678	9.5827 n	8.9441 n	9.8909
87	4.3*	30 19.61	3.641	+ 0.006	47 59 38.5	18.52	− 0.12	1.2675	9.5843 n	7.7009	9.8364
92	5.6*	31 51.57	3.570	− 0.001	43 44 57.2	18.46	− 0.02	1.2663	9.5912 n	8.6398	9.8039
501	6.0	33 09.99	3.558	. .	42 39 52.9	18.42	. .	1.2652	9.5970 n	8.7129	9.7941
502	5.*	1 33 12.46	+ 3.514	. .	39 56 34.4	+ 18.42	. .	1.2652	9.5972 n	8.8959	9.7706

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
508	6.8	1 34 01.32	+ 3.924	+ 0.010	57 59 40.3	+ 18.39	− 0.01	1.2645	9.6008 n	9.0345 n	9.8908
09	7.0	34 11.04	3.993	. .	59 54 56.2	18.38	. .	1.2644	9.6015 n	9.1078 n	9.8994
10	6.*	34 10.97	3.552	. .	41 59 08.4	18.38	. .	1.2644	9.6014 n	8.7428	9.7877
15	6.*	34 53.14	3.999	+ 0.008	59 55 10.4	18.36	− 0.04	1.2638	9.6045 n	9.1160 n	9.8989
16	6.0	34 50.19	3.442	. .	34 36 50.7	18.36	. .	1.2639	9.6043 n	9.1096	9.7160
φ Aur 22	4.*	35 50.07	3.719	+ 0.006	50 03 28.7	18.32	− 0.03	1.2630	9.6086 n	8.5156 n	9.8455
25	6.4	36 03.25	3.905	. .	56 54 26.7	18.32	. .	1.2628	9.6095 n	9.0171 n	9.8838
40	6.9	40 08.00	3.649	. .	45 36 22.7	18.17	. .	1.2593	9.6265 n	7.0715	9.8112
BAC 44	6.0	41 16.36	3.507	. .	37 19 46.0	18.13	. .	1.2583	9.6311 n	8.9329	9.7389
47	6.2	41 30.41	3.692	. .	47 16 24.0	18.12	. .	1.2581	9.6320 n	8.3101 n	9.8220
55	6.3	42 57.39	3.796	. .	51 19 00.7	18.06	. .	1.2568	9.6378 n	8.8313 n	9.8471
58	6.*	43 47.33	3.892	+ 0.002	54 31 36.8	18.03	− 0.06	1.2560	9.6410 n	9.0193 n	9.8647
60	6.*	44 12.88	3.775	+ 0.001	50 10 25.0	18.01	− 0.04	1.2556	9.6427 n	8.7740 n	9.8388
62	6.6	44 51.79	3.795	− 0.002	50 51 22.6	17.99	. .	1.2550	9.6452 n	8.8368 n	9.8425
66	6.*	45 47.80	3.572	− 0.002	40 06 42.7	17.95	− 0.01	1.2541	9.6488 n	8.6519	9.7611
75	6.0	47 22.90	3.579	− 0.001	40 05 20.5	17.89	− 0.03	1.2526	9.6548 n	8.6136	9.7594
76	6.4	47 34.71	3.519	. .	30 30 46.5	17.88	. .	1.2524	9.6555 n	8.9008	9.7248
79	5.8	48 31.00	3.525	+ 0.002	36 39 49.7	17.84	. .	1.2515	9.6590 n	8.8795	9.7254
80	5.8	48 44.01	3.525	+ 0.014	36 38 15.5	17.84	+ 0.01	1.2513	9.6598 n	8.8782	9.7249
87	6.8	50 10.03	3.722	. .	46 29 02.6	17.78	. .	1.2499	9.6550 n	8.5630 n	9.8082
90	6.*	50 37.54	3.775	+ 0.002	48 35 30.6	17.76	. .	1.2495	9.6667 n	8.7865 n	9.8224
614	5.6*	53 59.26	3.945	+ 0.003	53 52 53.8	17.63	− 0.03	1.2461	9.6786 n	9.1127 n	9.8512
24	5.6*	55 40.14	3.486	+ 0.003	32 40 50.9	17.55	+ 0.01	1.2443	9.6844 n	9.0175	9.6745
φ Aur 28	2.3*	56 13.88	3.650	+ 0.001	41 43 43.5	17.53	− 0.05	1.2437	9.6864 n	6.7236	9.7648
46	6.5	1 59 57.72	4.133	− 0.005	57 49 38.6	17.37	− 0.01	1.2397	9.6988 n	9.2834 n	9.8652
1 649	5.*	2 00 56.88	+ 3.583	+ 0.011	37 15 53.8	+ 17.32	− 0.05	1.2386	9.7021 n	8.5977	9.7186

DECLINATIONS

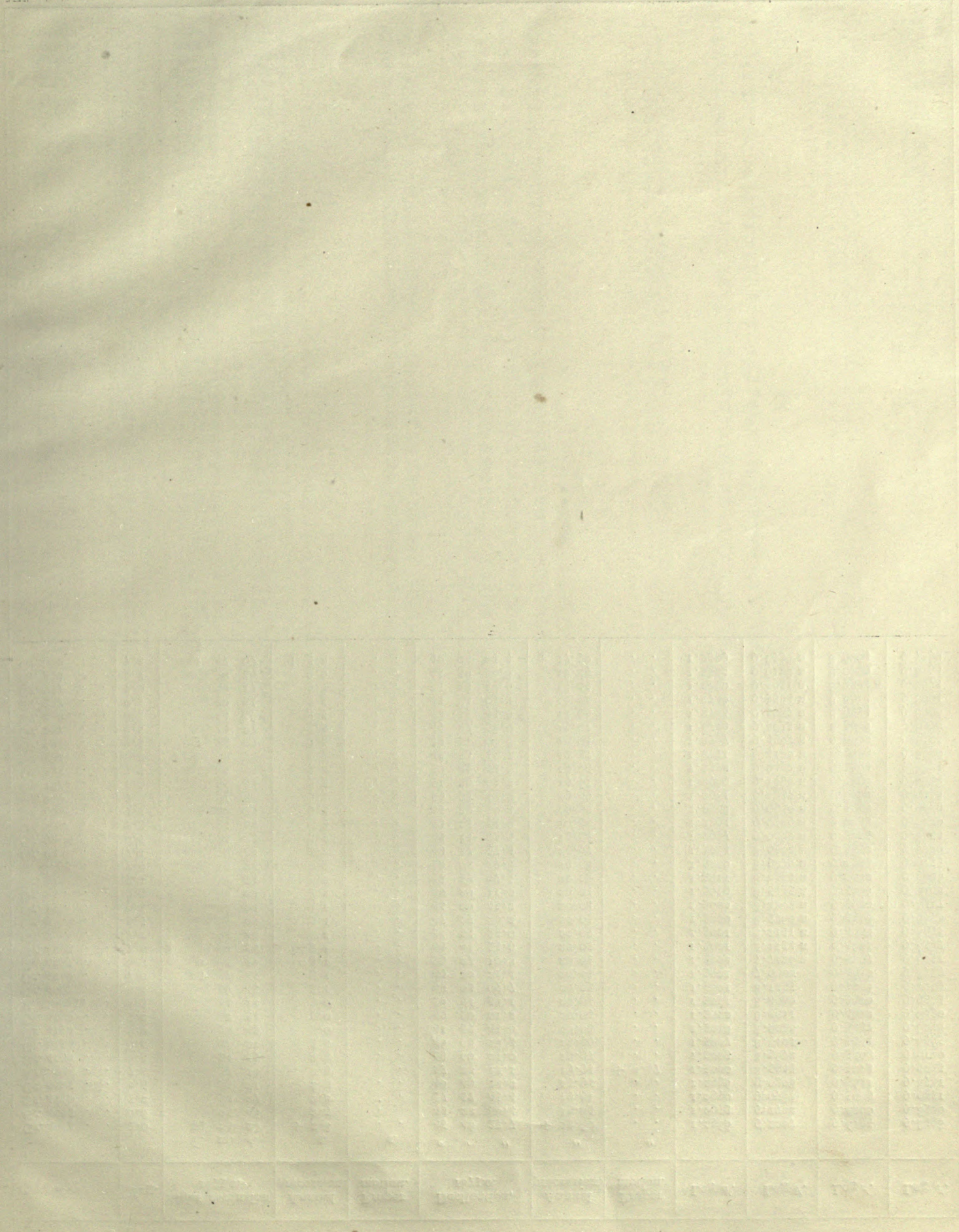
OF

ADDITIONAL STARS BETWEEN 30° AND 60° NORTH DECLINATION.

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
Gr. 1854 . .	7.0	12 03 08	+ 3.1	. .	39 19 49.3	— 20.05	. .	1.3021 n	8.1355	9.5369	9.8019 n
Gr. 1867 . .	6.5	14 0	3.0	. .	38 35 47.9	20.02	. .	1.3014 n	8.7856	9.5766	9.7943 n
Gr. 1894 . .	6.5	21 25	3.0	. .	42 02 51.5	19.96	. .	1.3003 n	8.9700	9.5851	9.8240 n
Gr. 1903 . .	6.5	24 53	2.9	. .	53 45 41.6	19.93	+ 0.20	1.2996 n	9.0349	9.5364	9.9041 n
Gr. 1907 . .	7.0	29 43	2.9	. .	40 22 24.1	19.88	. .	1.2985 n	9.1117	9.6174	9.8078 n
Arg. 124 . .	7.2	38 34	2.8	. .	52 27 01.2	19.77	— 0.17	1.2960 n	9.2240	9.5990	9.8930 n
Gr. 1925 . .	6.5	42 05	2.8	. .	50 50 24.0	19.72	. .	1.2948 n	9.2615	9.6187	9.8822 n
Gr. 1938 . .	6.5	12 50 52	2.8	. .	44 13 43.4	19.56	. .	1.2914 n	9.3427	9.6669	9.8328 n
Gr. 1979 . .	6.8	13 15 31	2.7	. .	38 30 45.7	18.97	. .	1.2782 n	9.5099	9.7332	9.7702 n
XIII, 71 . .	6.4	16 36	2.6	. .	44 33 27.3	18.94	. .	1.2774 n	9.5159	9.7318	9.8214 n
Gr. 1991 . .	6.0	20 55	2.6	. .	46 40 45.4	18.82	. .	1.2745 n	9.5388	9.7397	9.8342 n
Gr. 1994 . .	6.2	22 55	2.7	. .	41 22 48.7	18.75	. .	1.2731 n	9.5490	9.7478	9.7912 n
Gr. 2030 . .	6.1	35 47	2.2	. .	57 50 23.0	18.33	. .	1.2631 n	9.6084	9.7593	9.8886 n
Gr. 2032 . .	6.0	37 09	2.6	. .	42 18 17.6	18.28	. .	1.2619 n	9.6142	9.7765	9.7858 n
XIII, 189 . .	6.2	39 04	2.3	. .	52 41 36.5	18.21	. .	1.2603 n	9.6221	9.7754	9.8587 n
Arg. 142 . .	7.0	40 36	2.2	. .	56 31 08.4	18.15	— 0.36	1.2589 n	9.6284	9.7737	9.8779 n
Gr. 2056 . .	6.5	46 10	2.1	. .	59 09 30.7	17.94	. .	1.2538 n	9.6502	9.7825	9.8854 n
Gr. 2057 . .	6.7	47 51	2.5	. .	40 57 17.8	17.87	. .	1.2522 n	9.6565	9.7958	9.7666 n
Gr. 2058 . .	6.7	48 08	2.5	. .	42 48 03.0	17.87	. .	1.2520 n	9.6576	9.7974	9.7820 n
XIII, 289 . .	6.0	13 57 14	2.4	. .	46 21 36.1	17.49	. .	1.2427 n	9.6898	9.8154	9.8001 n
Gr. 2077 . .	7.0	14 02 16	2.4	. .	42 41 40.4	17.27	. .	1.2372 n	9.7063	9.8220	9.7663 n
Gr. 2082 . .	6.0	04 54	1.9	. .	59 55 49.0	17.15	. .	1.2342 n	9.7147	9.8235	9.8692 n
Gr. 2084 . .	6.5	07 04	1.9	. .	59 08 22.6	17.05	. .	1.2317 n	9.7214	9.8390	9.8532 n
Gr. 2102 . .	6.5	14 47	2.0	. .	55 26 21.6	16.68	. .	1.2223 n	9.7441	9.8470	9.8358 n
Gr. 2157 . .	6.3	14 45 29	1.9	. .	51 53 33.9	15.05	. .	1.1775 n	9.8202	9.8966	9.7312 n
Gr. 2202 . .	7.0	15 08 41	1.9	. .	49 02 51.1	13.63	. .	1.1346 n	9.8653	9.9235	9.7105 n
XV, 39 . .	6.3	12 02	1.8	. .	51 24 06.3	13.41	. .	1.1275 n	9.8711	9.9302	9.7184 n
Arg. 164 . .	7.0	15 30	2.2	. .	41 25 50.2	13.19	+ 0.18	1.1202 n	9.8769	9.9158	9.6387 n
Gr. 2227 . .	7.0	19 48	2.3	. .	37 47 13.1	12.90	+ 0.10	1.1107 n	9.8839	9.9098	9.5958 n
XV, 81 . .	6.0	21 24	2.4	. .	34 46 18.0	12.80	. .	1.1071 n	9.8865	9.9006	9.5610 n
Gr. 2232 . .	6.8	21 42	2.0	. .	44 44 25.6	12.78	. .	1.1064 n	9.8869	9.9297	9.6516 n
Gr. 2237 . .	7.0	23 52	2.2	. .	39 09 23.5	12.63	. .	1.1013 n	9.8903	9.9175	9.5995 n
Arg. 167 . .	7.0	25 59	1.4	. .	57 52 09.0	12.48	+ 0.15	1.0964 n	9.8935	9.9511	9.7220 n
R. C. 3416 .	7.3	31 37	2.2	. .	40 12 54.0	12.10	. .	1.0826 n	9.9018	9.9276	9.5904 n
Gr. 2260 . .	6.0	34 20	1.5	. .	54 55 07.8	11.90	. .	1.0757 n	9.9056	9.9580	9.6865 n
R. C. 3453 .	6.5	15 43 36	1.4	. .	55 51 28.0	11.24	. .	1.0508 n	9.9181	9.9680	9.6665 n
Gr. 2325 . .	7.0	16 12 44	1.5	. .	53 32 57.1	9.05	. .	0.9564 n	9.9506	9.9893	9.5597 n
Gr. 2351 . .	6.2	25 32	1.5	. .	51 40 54.3	8.03	. .	0.9049 n	9.9620	9.9947	9.4974 n
Gr. 2354 . .	7.1	26 44	1.7	. .	48 13 56.9	7.94	— 0.28	0.8997 n	9.9630	9.9886	9.4702 n
R. C. 3604 .	6.7	43 04	1.2	. .	55 32 27.2	6.61	. .	0.8200 n	9.9750	0.0105	9.4340 n
Gr. 2389 . .	6.8	49 35	1.9	. .	43 02 28.5	6.06	— 0.30	0.7828 n	9.9792	9.9857	9.3147 n
Arg. 185 . .	6.6	16 59 05	1.7	. .	47 18 47.8	5.27	+ 0.84	0.7216 n	9.9845	0.0013	9.2852 n
Gr. 2431 . .	6.0	17 14 11	2.0	. .	38 56 24.4	3.98	. .	0.6000 n	9.9913	9.9793	9.0962 n
Gr. 2436 . .	6.7	19 50	2.0	. .	38 41 46.8	3.50	. .	0.5436 n	9.9933	9.9797	9.0375 n
Gr. 2464 . .	6.0	41 44	2.0	. .	38 55 55.2	1.60	. .	0.2032 n	9.9986	9.9841	8.6993 n
Gr. 2473 . .	6.7	47 11	1.9	. .	40 06 17.3	1.12	. .	0.0498 n	9.9993	9.9890	8.5566 n
Gr. 2481 . .	6.4	48 33	1.7	. .	46 40 40.3	1.00	. .	0.0005 n	9.9995	0.0104	8.5602 n
Gr. 2494 . .	6.4	55 18	1.7	. .	45 29 03.5	0.41	. .	9.6140 n	9.9999	0.0074	8.1650 n
XVII, 347 .	5.5	56 02	2.2	. .	33 13 10.8	0.35	. .	9.5404 n	9.9999	9.9594	7.9748 n
R. C. 3820 .	6.8	17 57 47	1.6	. .	48 28 00.6	— 0.19	. .	9.2841 n	0.0000	0.0154	7.8562 n
R. 6227 . .	7.3	18 00 36	1.7	. .	46 26 01.1	+ 0.05	. .	8.7201	0.0000	0.0101	7.2780
R. 6264 . .	7.2	03 09	1.7	. .	46 15 31.6	0.28	. .	9.4403	0.0000	0.0097	7.9970
R. 6308 . .	6.1	07 11	2.2	. .	33 25 04.8	0.63	. .	9.7983	9.9998	9.9603	8.2371
Gr. 2536 . .	6.7	11 45	1.5	. .	49 06 51.2	1.01	. .	0.0119	9.9994	0.0166	8.5883
Gr. 2563 . .	6.7	20 19	1.9	. .	42 24 01.6	1.75	. .	0.2493	9.9983	9.9965	8.7760
Arg. LXIII .	5.5	28 03	2.3	. .	30 27 42.4	2.45	. .	0.3888	9.9967	9.9431	8.7916
Gr. 2597 . .	6.8	28 47	1.7	. .	45 40 51.5	2.51	. .	0.4000	9.9966	0.0056	8.9524
Gr. 2603 . .	6.5	30 16	1.7	. .	46 07 18.2	2.64	. .	0.4217	9.9962	0.0066	8.9773
Gr. 2615 . .	7.3	32 05	1.8	. .	42 57 10.4	2.80	. .	0.4469	9.9957	9.9966	8.9779
Gr. 2632 . .	6.8	36 00	1.4	. .	52 13 51.4	3.14	. .	0.4965	9.9946	0.0197	9.0922
Gr. 2644 . .	6.5	39 06	2.0	. .	39 10 32.7	3.40	. .	0.5321	9.9937	9.9818	9.0304
Gr. 2646 . .	6.8	39 15	1.8	. .	44 48 08.2	3.42	. .	0.5337	9.9936	0.0010	9.0795
Gr. 2659 . .	6.0	40 49	1.3	. .	53 44 40.6	3.55	. .	0.5505	9.9931	0.0212	9.1549
Gr. 2669 . .	6.1	18 43 26	+ 1.7	. .	46 10 43.9	+ 3.78	. .	0.5772	9.9922	0.0039	9.1332

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
Gr. 2687 . .	7.2	18 46 56	+ 1.8	. .	43 48 33.6	+ 4.08	. .	0.6105	9.9908	9.9960	9.1486
Gr. 2693 . .	6.5	48 06	1.9	. .	41 13 56.2	4.18	. .	0.6210	9.9904	9.9872	9.1378
Gr. 2701 . .	7.0	18 49 35	1.9	. .	42 44 51.0	4.30	. .	0.6339	9.9898	9.9919	9.1635
Gr. 2770 . .	7.0	19 03 32	2.0	. .	38 43 52.4	5.49	. .	0.7394	9.9831	9.9732	9.2336
Gr. 2774 . .	6.9	03 59	2.0	. .	38 57 24.6	5.53	. .	0.7424	9.9828	9.9740	9.2387
R. 7219 . .	7.0	07 30	1.0	. .	58 04 02.9	5.82	. .	0.7650	9.9809	0.0177	9.3915
Gr. 2829 . .	7.1	18 34	1.5	. .	52 08 12.1	6.74	. .	0.8287	9.9740	0.0043	9.4239
Gr. 2833 . .	7.5	19 09	1.1	. .	57 31 34.5	6.79	. .	0.8317	9.9736	0.0115	9.4557
Gr. 2844 . .	6.2	22 08	1.8	. .	44 41 04.6	7.03	. .	0.8472	9.9715	9.9854	9.3922
Gr. 2845 . .	6.8	22 12	1.8	. .	44 45 46.8	7.04	. .	0.8475	9.9714	9.9855	9.3928
XIX, 193. .	6.3	28 35	1.3	. .	55 27 58.4	7.56	. .	0.8784	9.9667	0.0039	9.4921
Gr. 2872 . .	6.6	28 45	1.3	. .	54 59 34.9	7.57	+ 0.11	0.8792	9.9666	0.0032	9.4904
R. C. 4379 .	6.2	31 12	0.9	. .	59 53 09.5	7.77	. .	0.8905	9.9647	0.0065	9.5253
Gr. 2912 . .	6.2	37 41	2.0	. .	39 57 33.6	8.29	. .	0.9186	9.9593	9.9625	9.4241
Gr. 2946 . .	7.0	44 54	1.3	. .	56 36 06.7	8.86	− 0.10	0.9475	9.9528	9.9947	9.5670
χ Cygni . .	Var.	45 46	2.3	. .	32 35 58.0	8.92	. .	0.9508	9.9520	9.9284	9.3800
Gr. 2957 . .	6.2	47 35	1.8	. .	47 03 23.4	9.07	. .	0.9577	9.9503	9.9770	9.5200
Gr. 2978 . .	7.5	50 44	1.2	. .	57 50 21.8	9.32	. .	0.9692	9.9472	9.9915	9.5917
R. C. 4507 .	6.8	51 20	2.1	. .	39 50 30.6	9.36	. .	0.9714	9.9466	9.9541	9.4758
Gr. 2977 . .	6.7	51 21	1.8	. .	47 12 37.2	9.36	. .	0.9714	9.9466	9.9748	9.5349
R. C. 4521 .	6.5	52 36	1.1	. .	59 16 11.3	9.46	. .	0.9759	9.9453	9.9911	9.6080
XIX, 370. .	6.3	53 36	1.3	. .	56 21 05.8	9.54	. .	0.9795	9.9443	9.9880	9.5977
Gr. 3011 . .	7.5	56 27	1.2	. .	57 28 02.6	9.76	. .	0.9893	9.9413	9.9867	9.6130
Gr. 3013 . .	7.0	57 31	2.1	. .	40 30 41.8	9.84	. .	0.9929	9.9402	9.9523	9.5034
Gr. 3014 . .	6.8	19 57 42	2.0	. .	43 46 21.5	9.85	. .	0.9935	9.9400	9.9618	9.5313
R. C. 4661 .	7.5	20 09 43	1.9	. .	46 20 00.3	10.75	. .	1.0315	9.9264	9.9591	9.5887
Gr. 3110 . .	6.2	11 57	1.9	. .	45 11 52.2	10.92	. .	1.0382	9.9236	9.9546	9.5870
Gr. 3142 . .	6.0	15 19	1.5	. .	55 00 25.1	11.16	. .	1.0478	9.9194	9.9682	9.6590
Gr. 3215 . .	6.7	28 27	2.1	. .	41 27 25.7	12.10	+ 0.43	1.0828	9.9017	9.9310	9.6015
Gr. 3220 . .	6.2	29 21	2.1	. .	41 20 50.4	12.16	− 0.10	1.0850	9.9004	9.9299	9.6028
R. C. 4871 .	7.2	30 28	2.1	. .	41 17 15.9	12.24	. .	1.0878	9.8988	9.9287	9.6050
Gr. 3243 . .	7.2	33 33	2.1	. .	42 24 08.2	12.45	+ 0.20	1.0952	9.8942	9.9289	9.6219
Gr. 3311 . .	6.8	47 20	1.8	. .	51 55 36.8	13.37	. .	1.1262	9.8722	9.9315	9.7201
Gr. 3328 . .	7.0	49 25	1.5	. .	58 10 59.7	13.51	. .	1.1306	9.8686	9.9328	9.7578
Gr. 3327 . .	7.0	49 50	1.9	. .	49 03 33.2	13.54	. .	1.1315	9.8679	9.9251	9.7075
XX, 401 . .	6.7	20 51 32	2.1	. .	43 53 42.6	13.65	. .	1.1350	9.8650	9.9143	9.6738
Gr. 3387 . .	6.9	21 00 16	1.7	. .	54 44 01.4	14.20	. .	1.1522	9.8490	9.9176	9.7619
Fed. 3689. .	7.0	01 33	1.4	. .	59 45 32.3	14.28	. .	1.1546	9.8465	9.9166	9.7889
R. C. 5132 .	7.0	06 11	2.1	. .	47 10 56.5	14.56	. .	1.1630	9.8375	9.9028	9.7263
Gr. 3424 . .	6.4	12 39	2.3	. .	42 09 37.9	14.94	. .	1.1744	9.8241	9.8861	9.6990
Gr. 3447 . .	7.0	18 09	2.1	. .	48 57 27.6	15.26	. .	1.1834	9.8122	9.8890	9.7588
XXI, 159. .	7.1	23 19	2.2	. .	46 01 03.0	15.55	. .	1.1916	9.8005	9.8784	9.7465
R. C. 5252 .	6.7	25 00	2.2	. .	45 52 43.8	15.64	. .	1.1942	9.7965	9.8760	9.7481
D.M.+50°3382	7.1	32 54	2.1	. .	50 30 09.6	16.06	. .	1.2058	9.7772	9.8680	9.7910
Gr. 3524 . .	6.7	34 00	2.1	. .	49 13 55.7	16.12	. .	1.2073	9.7744	9.8656	9.7845
Gr. 3533 . .	7.3	34 59	2.1	. .	51 47 49.7	16.17	. .	1.2087	9.7719	9.8652	9.8018
Gr. 3550 . .	6.9	36 51	1.8	. .	59 11 01.7	16.27	. .	1.2113	9.7670	9.8600	9.8430
Gr. 3554 . .	7.1	37 47	2.1	. .	51 43 16.9	16.31	. .	1.2125	9.7647	9.8606	9.8052
Gr. 3556 . .	6.4	38 06	2.2	. .	49 01 46.9	16.33	. .	1.2130	9.7637	9.8590	9.7888
R. 9430 . .	7.2	38 26	2.5	. .	37 44 01.5	16.35	. .	1.2135	9.7628	9.8437	9.6982
R. C. 5408 .	6.2	44 35	2.4	. .	40 33 59.8	16.65	. .	1.2215	9.7459	9.8400	9.7325
Gr. 3601 . .	7.0	48 13	2.1	. .	54 27 07.6	16.83	. .	1.2260	9.7355	9.8417	9.8343
R. C. 5476 .	6.9	21 52 11	2.3	. .	45 59 52.5	17.01	. .	1.2308	9.7236	9.8339	9.7855
Gr. 3680 . .	6.5	22 00 57	2.3	. .	47 37 24.8	17.41	. .	1.2407	9.6958	9.8190	9.8070
Gr. 3715 . .	6.3	07 38	2.0	. .	58 27 50.2	17.69	. .	1.2477	9.6729	9.7982	9.8762
Gr. 3717 . .	6.0	08 41	2.4	. .	44 49 16.4	17.73	. .	1.2488	9.6692	9.8040	9.7947
R. C. 5653 .	6.8	15 06	2.1	. .	59 31 13.5	17.99	. .	1.2550	9.6453	9.7788	9.8882
Gr. 3750 . .	6.5	16 30	2.6	. .	41 26 54.8	18.04	. .	1.2563	9.6399	9.7882	9.7749
Gr. 3771 . .	7.1	20 55	2.3	. .	53 10 51.4	18.21	. .	1.2602	9.6222	9.7749	9.8614
Gr. 3772 . .	7.1	21 02	2.3	. .	53 18 34.3	18.21	. .	1.2603	9.6217	9.7744	9.8623
Ll. 43886 . .	6.0	21 58	2.6	. .	39 10 25.0	18.24	. .	1.2612	9.6179	9.7770	9.7595
XXII, 113 .	6.2	22 03	2.7	. .	31 12 06.2	18.25	. .	1.2612	9.6175	9.7678	9.6734
Gr. 3779 . .	7.3	22 43	2.4	. .	50 51 20.7	18.27	. .	1.2618	9.6147	9.7733	9.8493
Gr. 3780 . .	7.0	22 54	2.4	. .	50 56 18.3	18.28	. .	1.2620	9.6140	9.7728	9.8499
Gr. 3843 . .	6.7	33 18	2.6	. .	43 39 41.9	18.63	. .	1.2703	9.5674	9.7550	9.8072
Gr. 3849 . .	7.2	34 31	2.6	. .	40 39 46.5	18.67	. .	1.2712	9.5616	9.7532	9.7830
Gr. 3867 . .	7.5	38 10	2.6	. .	43 52 31.9	18.79	. .	1.2739	9.5435	9.7443	9.8125
Gr. 3873 . .	7.0	39 13	2.7	. .	38 32 45.0	18.82	. .	1.2746	9.5381	9.7438	9.7669
Gr. 3877 . .	7.0	39 37	2.5	. .	51 51 36.5	18.83	. .	1.2749	9.5361	9.7310	9.8684
Gr. 3901 . .	6.7	44 48	2.6	. .	50 00 55.2	18.98	. .	1.2784	9.5082	9.7208	9.8605
Ll. 44750 . .	7.0	45 47	2.6	. .	48 04 14.9	19.01	. .	1.2790	9.5027	9.7215	9.8483
Gr. 3913 . .	7.4	47 15	2.6	. .	50 02 29.3	19.05	. .	1.2799	9.4943	9.7143	9.8623
Gr. 3936 . .	6.5	51 54	2.8	. .	38 38 28.1	19.17	. .	1.2827	9.4665	9.7175	9.7760
Gr. 3947 . .	6.5	54 55	2.7	. .	44 42 16.2	19.25	. .	1.2844	9.4474	9.7037	9.8295
Gr. 3964 . .	7.0	57 14	2.5	. .	59 10 50.3	19.30	. .	1.2857	9.4321	9.6576	9.9174
Gr. 3965 . .	6.5	22 57 21	2.6	. .	54 33 48.8	19.31	. .	1.2857	9.4313	9.6735	9.8946
Gr. 3990 . .	6.5	23 01 54	2.5	. .	59 03 05.7	19.41	. .	1.2880	9.3993	9.6417	9.9192
Gr. 4017 . .	6.5	08 32	2.7	. .	49 56 16.4	19.55	. .	1.2911	9.3477	9.6529	9.8728
Gr. 4020 . .	7.1	09 13	2.8	. .	45 50 38.8	19.56	. .	1.2914	9.3420	9.6627	9.8450
Gr. 4043 . .	6.7	14 50	2.6	. .	59 35 26.8	19.66	. .	1.2937	9.2918	9.5894	9.9272
Gr. 4052 . .	6.5	23 18 09	+ 2.9	. .	40 55 37.0	+ 19.72	. .	1.2949	9.2590	9.6501	9.8090

No.	Mag.	Right ascension, 1875.0.	Annual precession.	Proper motion.	Declination, 1875.0.	Annual precession.	Proper motion.	Log a'.	Log b'.	Log c'.	Log d'.
		h. m. s.	s.	s.	° ′ ″	″	″				
Gr. 4074 . .	7.0	23 23 28	+ 2.8	. .	45 46 37.7	+ 19.80	. .	1.2966	9.2007	9.6195	9.8498
Gr. 4083 . .	6.8	25 48	2.9	.	43 22 56.4	19.83	. .	1.2973	9.1722	9.6206	9.8320
Gr. 4110 . .	7.2	32 27	2.8	. .	57 57 45.4	19.91	. .	1.2990	9.0788	9.5209	9.9251
Gr. 4125 . .	6.5	35 21	2.9	. .	48 49 12.2	19.94	. .	1.2996	9.0308	9.5641	9.8741
Arg. 246 . .	7.5	37 20	2.9	. .	57 22 12.1	19.95	+ 0.47	1.3000	8.9945	9.5013	9.9233
Gr. 4136 . .	6.5	38 43	2.9	. .	55 06 21.0	19.97	. .	1.3003	8.9672	9.5109	9.9120
Gr. 4139 . .	6.5	41 21	3.0	. .	46 08 18.3	19.99	. .	1.3007	8.9101	9.5554	9.8565
Gr. 4172 . .	6.0	50 43	3.0	. .	41 57 45.0	20.04	. .	1.3018	8.6070	9.5437	9.8248
Gr. 4190 . .	7.2	52 54	3.0	. .	49 50 01.2	20.04	. .	1.3020	8.4911	9.4822	9.8830
R. C. 6254 .	6.3	54 11	3.0	. .	58 51 52.1	20.05	. .	1.3021	8.4040	9.3910	9.9323
Gr. 4207 . .	6.8	56 44	3.1	. .	42 03 07.7	20.05	. .	1.3021	8.1535	9.5208	9.8259
Gr. 4216 . .	7.0	23 57 45	3.1	. .	49 10 27.4	20.05	. .	1.3021	7.9906	9.4640	9.8789
Gr. 4237 . .	6.7	0 01 11	3.1	. .	39 27 10.8	20.05	. .	1.3022	7.7126 n	9.5207	9.8031
Gr. 4243 . .	7.0	02 59	3.1	. .	45 41 33.9	20.05	. .	1.3021	8.1134 n	9.4681	9.8547
Gr. 2 . . .	7.1	03 46	3.1	. .	51 33 35.0	20.05	. .	1.3021	8.2151 n	9.4048	9.8938
Gr. 9 . . .	5.5	05 27	3.1	. .	47 27 22.2	20.05	. .	1.3020	8.3760 n	9.4408	9.8672
Gr. 13 . . .	6.5	06 02	3.1	. .	44 00 45.2	20.04	. .	1.3020	8.4203 n	9.4680	9.8417
Gr. 24 . . .	6.9	08 02	3.1	. .	40 20 11.0	20.04	. .	1.3019	8.5443 n	9.4886	9.8108
Gr. 55 . . .	7.1	16 01	3.2	. .	53 57 07.1	20.00	. .	1.3011	8.8454 n	9.2982	9.9066
R. C. 93 . .	7.0	19 24	3.2	. .	56 05 17.8	19.98	. .	1.3006	8.9270 n	9.2354	9.9175
Gr. 64 . . .	7.1	20 28	3.2	. .	49 17 37.4	19.97	. .	1.3004	8.9502 n	9.3332	9.8780
Gr. 74 . . .	6.7	24 29	3.2	. .	43 15 21.9	19.94	. .	1.2997	9.0280 n	9.3855	9.8334
Gr. 86 . . .	7.3	25 53	3.3	. .	53 25 52.0	19.92	. .	1.2994	9.0519 n	9.2253	9.9020
Gr. 96 . . .	7.1	28 32	3.3	. .	53 30 50.3	19.90	. .	1.2988	9.0940 n	9.1992	9.9019
Gr. 108 . .	7.0	31 25	3.4	. .	59 38 12.6	19.86	. .	1.2981	9.1357 n	9.0062	9.9318
Gr. 125 . .	7.0	35 38	3.3	. .	51 39 04.8	19.81	. .	1.2969	9.1898 n	9.1696	9.8892
Gr. 142 . .	7.5	40 55	3.4	. .	50 45 43.8	19.73	. .	1.2952	9.2494 n	9.1364	9.8821
Gr. 241 . .	6.7	0 59 56	3.5	. .	48 53 10.7	19.37	. .	1.2871	9.4126 n	8.9569	9.8620
Gr. 294 . .	6.5	1 13 02	3.5	. .	42 51 08.8	19.04	. .	1.2797	9.4960 n	9.0212	9.8101
Gr. 297 . .	6.5	14 22	3.6	. .	49 27 58.0	19.01	. .	1.2789	9.5035 n	8.5988	9.8576
Gr. 299 . .	6.5	14 56	3.5	. .	42 55 44.6	18.99	. .	1.2785	9.5067 n	8.9954	9.8096
Gr. 317 . .	6.5	20 51	3.5	. .	43 24 01.3	18.82	. .	1.2746	9.5384 n	8.8914	9.8094
Gr. 357 . .	7.0	32 17	3.8	. .	53 13 58.9	18.45	. .	1.2660	9.5931 n	8.7344 n	9.8675
Gr. 374 . .	6.8	36 49	3.6	. .	45 30 39.8	18.29	. .	1.2622	9.6128 n	8.0629	9.8134
Gr. 400 . .	7.3	1 47 08	+ 3.6	. .	40 02 24.4	+ 17.90	. .	1.2529	9.6538 n	8.6264	9.7592



DETAILS OF POSITIONS

OF

BRITISH ASSOCIATION CATALOGUE STARS.

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
4108	M.	12	05	30.21	57	44	59.7
	Rob.			30.29		45	02.2
	Q.			30.21*			. .
	Ay., 1864			30.42			01.7
	Ad.			30.28			01.0
4121	M.	12	08	31.24	54	07	48.5
	Rob.			31.25			49.1
	Wn.			31.28			48.8
	Ad.			31.26			48.6
4123	St.	12	09	14.02	57	43	37.0
	R. C.$_2$			13.92			38.0
	Ay., 1869			13.93			38.7
	Leid.			. .			38.4
	Ad.			13.97			37.9
4126	St.	12	09	51.49	41	21	21.8
	Main			51.38			19.8
	Ad.			51.47			21.1
4128	T.	12	10	13.28	33	35	38.5
	H.			13.02			41.0
	Rob.			12.95			39.6
	Ay., 1860			13.03			33.5
	Wn. Tran.			12.86			. .
	Ad.			12.94			33.5
4148	M.	12	13	38.93	49	40	41.2
	Rob.			38.81			41.3
	Ay., 1864			38.91			40.9
	Wn.			. .			41.4
	Ad.			38.88			41.1
4159	M.	12	14	46.98	58	33	36.4
	Rob.			46.96			37.6
	R. C.$_2$			47.04*			35.5
	Ad.			46.98			36.3
4177	M.	12	17	37.72	43	14	07.0
	Rob.			37.78			07.7
	Ay., 1864			37.78			07.0
	Ad.			37.76			07.1
4180	M.	12	17	56.51	52	15	17.4
	Rob.			56.48			17.2
	Ay., 1864			56.53			17.9
	Ad.			56.51			17.3
4185	M.	12	19	04.16	57	28	14.8
	Rob.			04.11			15.5
	Ad.			04.14			14.9
4188	St.	12	19	41.27	39	42	43.4
	Wn.			41.30			43.7
	Ad.			41.28			43.5
4194	M.	12	20	33.11	55	51	04.1
	Rob.			. .			04.6
	R. C.$_2$			33.24			03.5
	Ad.			33.18			03.9
4203	M.	12	21	37.74	56	21	15.9
	Rob.			37.86			17.3
	Wn. Tran.			37.89			. .
	Ad.			37.83			16.4
4216	St.	12	24	06.71	59	05	36.5
	Pulc.			. .			37.1
	Ay., 1867			06.54			37.6
	Wn.			06.72			37.4
	Ad.			06.68			37.0
4217	M.	12	24	07.93	52	13	31.0
	Rob.			07.84			31.4
	R. C.$_2$			07.90			32.5
	Ad.			07.89			31.5
4219	R.	12	24	12.47	59	27	34.2
	R. C.			12.59			34.5
	Rob.			12.37			34.7
	Ja.			12.07			35.3
	Pulc.			. .			33.7
	Ad.			12.48			33.8
4233	T.	12	27	28.68	33	56	19.5
	H.			29.18			21.4
	Rob.			29.41			22.2
	Main			29.34			19.3
	Ay.			29.34			19.0
	Ad.			29.44			20.4
4235	St.	12	27	48.17	42	02	13.1
	Ay., 1867, 1868, 1869			48.23			13.1
	Ad.			48.19			13.1
4244	Rob.	12	29	04.31	37	06	[46.1*]
	Ja.			04.27			52.3
	R. C.$_2$			. .			51.6
	Main			04.51*			51.6
	Sm.			04.59			52.4
	Ad.			04.47			51.9
4258	M.	12	32	45.09	41	33	44.6
	Rob.			45.19			45.7
	Ad.			45.14			44.9
4282	H.	12	38	32.88	44	47	15.6
	Ay., 1845			32.86			15.4
	R. C.			32.92			15.8
	Ja.			32.65			16.4
	Wn. Tran. and Mur.			32.82			14.9
	Ad.			32.87			15.5
4285	M.	12	39	04.58	39	57	31.7
	Rob.			. .			32.7
	R. C.$_2$			04.51			31.6
	Wn.			04.76			30.3
	Ad.			04.65			31.5
4287	H.	12	39	14.95	46	07	26.2
	R. C.			15.09			26.0
	Rob.			15.08			26.5
	Ja.			14.78			26.3
	Ay.			15.18			25.8
	Ad.			15.08			25.9
4303	M.	12	42	56.45	49	08	54.2
	Rob.			56.52			55.9
	Ay., 1860			56.45			53.9
	R. C.$_2$			56.52			53.9
	Wn. Tran. and Mur.			56.38*			54.7
	Ad.			56.47			54.4
4311	R.	12	44	[13.75]	38	11	50.8
	H.			14.38			50.9
	R. C.			14.39			51.1
	Rob.			14.25			50.7
	Ja.			14.07			50.2
	Ay.			14.37			50.5
	Wn.			. .			50.6
	Ad.			14.34			50.6
4335	St.	12	48	31.48	56	38	17.9
	R. C.$_2$			31.57			17.7
	Ad.			31.51			17.8

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
4341	H.	12	49	13.78	47	52	31.2
	R. C.			13.78			30.4
	Ja.			13.44			28.5
	Ad.			13.78			29.9
4345	Ja.	12	50	09.17	38	59	23.2
	Ay., 1860			09.45			24.3
	R. C_2			09.53			24.2
	Ay., 1864			09.44			24.2
	Wn.			09.44			23.9
	Ay., 1868			09.43			24.6
	Ad.			09.46			24.3
4348	M.	12	50	48.53	54	46	34.3
	Rob.			48.59			34.8
	R. C_2			48.37			34.3
	Ay., 1864			48.70			35.1
	Arg., 1862, 1863			48.57			34.7
	Ad.			48.55			34.5
4350	H.	12	51	25.08	46	51	20.9
	R. C.			24.97			20.5
	Rob.			20.13			20.3
	Ja.			24.85			18.6
	Ad.			25.06			19.9
4360	M.	12	54	17.50	31	27	36.9
	Rob.			17.41			35.7
	Ay., 1860			17.44			35.4
	Ay., 1864			17.33*			35.9*
	Ad.			17.43			35.8
4366	M.	12	55	21.31	57	02	23.2
	Rob.			21.32			24.3
	R. C_2			21.50			24.8
	Ay., 1860			21.48			25.4
	Wn. Tran.			21.56			. .
	Ad.			21.43			24.3
4384	M.	12	59	53.79	36	28	06.0
	Rob.			53.75			05.8
	Ay., 1860			53.67			04.8
	Ay., 1864			53.66			06.0
	Wn. Tran.			53.61			. .
	Ay., 1869			53.71			05.5
	Leid.			. .			05.4
	Ad.			53.70			05.6
4389	H.	13	00	14.65	45	56	14.7
	R. C.			14.40			13.2
	Rob.			. .			14.5
	Ja.			14.35			14.3
	Ad.			14.52			14.0
4407	R.	13	03	[53.91]	38	05	23.8
	Ay.			53.15			23.2
	R. C.			52.99			23.8
	Ja.			52.83			22.5
	Ay., 1869			52.85			22.5
	Wn.			52.90			22.2
	Wn. Tran.			52.74			. .
	Leid.			. .			22.5
	Ad.			52.93			23.0
4408	M.	13	03	56.78	39	12	01.9
	Rob.			56.91			01.6
	Ay., 1864			56.75			01.2
	Ad.			56.81			01.4
4414	M.	13	04	16.50	39	23	25.4
	Rob.			16.67			26.8
	Ay., 1864			16.64			24.1
	Ad.			16.67			25.3
4415	St.	13	04	18.74	39	09	49.8
	Ay., 1864			18.68			49.4
	Wn.			18.75			49.7
	Ad.			18.73			49.7
4416	T.	13	04	25.57*	57	29	50.8*
	R.			25.25			49.4
	H.			25.51			51.4
	R. C.			25.30			51.1
	Rob.			25.06			53.0
	Ad.			25.34			50.9
4420	M.	13	05	48.08	41	27	26.9
	Rob.			. .			27.8
	R. C_2			48.02			27.2
	Ay., 1864			48.00			27.6
	Ad.			48.03			27.2
4433	T.	13	08	02.72	40	48	54.8
	Ay., 1845			02.98			54.4
	H.			02.59			54.3
	R. C.			02.85			55.7
	Rob.			02.85			54.8
	Ay., 1860			02.75			55.4
	Wn. Tran. and Mur.			02.56*			54.9
	Ad.			02.77			55.0
4438	M.	13	09	54.66	41	30	56.1
	Rob.			54.56			56.5
	Ay., 1864			54.57			57.0
	Ad.			54.60			56.4
4451	St.	13	11	56.12	41	13	52.6
B	Ay., 1869			56.15			52.9
	Leid.			. .			52.4
	Ad.			56.12			52.6
4453	T.	13	12	40.17	34	45	23.6
	H.			40.29*			23.7
	Rob.			40.27			25.0
	Main, 1868			. .			22.2
	Ad.			40.24			23.8
4456	M.	13	12	55.41	50	20	23.0
	Rob.			55.34			24.7*
	Ay., 1860			55.30			22.8
	Ad.			55.35			23.1
4457	R.	13	13	19.15	35	47	05.6
	Ja.			18.94			06.4
	Arg.			19.24			06.1
	Main, 1868			. .			06.4*
	Smyth			19.36			06.0
	Ad.			19.20			06.1
4467	M.	13	14	42.82	40	48	26.7
	Rob.			42.76			25.6
	Ay., 1864			42.82			26.6
	Ad.			42.80			26.0
4479	R. C.	13	18	13.83	37	41	15.8
	Rob.			. .			14.6
	Ja.			13.43			13.8
	Wn. Tran. and Mur.			13.77			13.7
	Ay., 1868			13.73			14.0
	Ad.			13.78			14.2
4484	St.	13	18	53.40	55	34	41.9
C	R. C_2			53.31			41.8
	Wn.			53.48			45.2
	Ay., 1868, 1869			53.42			43.8
	Main			. .			41.7
	Leid.			. .			43.3
	Ad.			53.40			42.9
4486	Ay., 1860	13	18	54.26	55	34	30.2
	R. C_2			54.28			30.6
	Ay., 1864			54.26			30.8
	Wn.			54.37			31.8
	Wn. Mur.			. .			30.9
	Ay., 1868			54.41			31.9
	Ad.			54.32			31.0
4493	M.	13	20	13.04	55	38	21.7
	Ay., 1860			13.03			22.3
	R. C_2			12.84			22.2
	Wn. Tran. and Mur.			13.15			23.1
	Ay., 1869			12.92			23.6
	Ad.			13.00			22.4

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
4519	R.	13 25 50.40	42 44 59.2
	H.	50.56	45 00.5
	R.C.	50.51	00.3
	Ja.	50.19	44 58.3
	Arg.	50.26	45 00.1
	Wn. Tran.	50.34	. .
	Wn.	50.49	45 00.0
	Ad.	50.42	44 59.4
4536	St.	13 29 12.76	37 49 23.5
4538	M.	13 29 20.58	49 39 19.4
	Rob.	20.64	20.2
	Ay., 1860	20.67	19.8
	R.C.$_2$	20.64	19.0
	Ad.	20.63	19.6
4540	M.	13 29 18.94	55 59 21.9
	Rob.	18.92	22.7
	Wn.	18.84	21.7
	Ad.	18.90	21.9
4545	H.	13 29 54.85	44 50 12.3
	R.C.	54.81	11.2
	Ja.	54.45	11.0
	Wn.	. .	11.7
	Ad.	54.83	11.5
4550	M.	13 31 37.78	53 19 35.0
	R.C.	37.87	. .
	Rob.	[37.18]	35.6
	Wn.	37.91	36.6
	Sm.	38.01	35.4
	Ad.	37.85	35.6
4552	R.	13 31 54.56	36 55 50.4
	Ay., 1845	. .	52.1
	H.	54.60	52.9
	Rob.	54.65	. .
	Ay., 1850	54.61	52.7
	Ja.	54.20	52.1
	Wn. Tran.	54.42	. .
	Sm.	54.51	52.0
	Ad.	54.56	52.3
4555	M.	13 32 17.95	53 13 50.1
	R.C.	18.14	. .
	Rob.	17.63	51.2
	R.C.$_2$	18.07	50.9
	Sm.	. .	50.6
	Ad.	18.01	50.5
4556	T.	13 32 42.31	51 21 05.8
	R.	42.45	05.0
	H.	[41.87]	04.8
	R.C.	42.36	05.1
	Rob.	42.66	08.7
	Ad.	42.44	05.7
4564	M.	13 34 40.06	53 33 11.1
	Rob.	39.92	12.0
	R.C.$_2$	40.16	12.6
	Ay., 1864	40.21	13.6
	Ad.	40.09	12.2
4568	M.	13 35 39.65	55 18 52.3
	Rob.	[36 00.05]	51.2
	Ay., 1860	35 59.74	53.4
	Ad.	59.70	52.1
4592	T.	13 40 37.12	31 31 40.1
	Rob.	36.94	40.0
	Main	. .	36.0
	Ad.	37.03	38.7
4595	R.C.	13 40 54.28	39 07 50.9
	Ja.	53.87	47.4
	Wn. Mur.	. .	48.5*
	Ad.	54.28	48.9
4596	Ay., 1845	13 40 55.24	41 43 00.8
	H.	55.29	00.1
	R.C.	55.27	00.2
	Ja.	54.66	00.3
	Wn.	55.16	42 59.0
	Ad.	55.24	43 00.1
4600	R.	13 41 36.74	39 10 08.3
	H.	36.59	08.5
	R.C.	36.52	08.1
	Ja.	36.22	07.0
	Ad.	36.53	07.9
4605	M.	13 41 55.67	55 03 25.0
	Rob.	55.72	26.5
	R.C.$_2$	55.65	27.3
	Ad.	55.68	26.1
4607	American Nautical Almanac	star.	
4609	H.	13 42 48.36	42 40 25.6
	R.C.	48.33	25.2
	Ja.	47.88	23.6
	Wn.	48.48	22.3
	Ad.	48.39	24.1
4610	H.	13 43 00.23	31 48 42.6
	Ja.	42 59.92	42.9
	Arg.	43 00.29	42.0
	Main	00.19*	[32.6]*
	Sm.	00.35	42.9
	Ad.	00.25	42.6
4627	R.	13 45 33.28	35 23 35.0
	H.	33.42	33.5
	Rob.	. .	34.7*
	Ja.	33.07	33.1
	R.C.$_2$	33.37	. .
	Sm.	33.56	32.4
	Ad.	33.36	33.6
4628	H.	13 45 38.23	35 17 10.9
	Rob.	. .	11.6*
	Ja.	37.85	09.4
	R.C.$_2$	38.28*	10.5*
	Sm.	. .	09.5
	Ad.	38.25	10.0
4632	Ja.	13 46 16.39	35 03 51.2
	Ay., 1864	16.61	50.8
	Main, 1864	16.53	51.6
	Wn. Tran.	16.59	. .
	Sm.	16.69	49.0*
	Ad.	16.53	50.8
4649	M.	13 49 15.06	54 20 36.7
	Rob.	15.11	37.3
	R.C.$_2$	14.95	36.1
	Ad.	15.04	36.5
4652	Ja.	13 50 37.76	32 38 35.3
	R.C.$_2$	37.89	35.3
	Sm.	37.64	35.0
	Ad.	37.89	35.1
4676	B. Z.	13 55 49.66*	32 10 12.3*
	Ja.	49.43	11.5
	Main	. .	11.3
	Sm.	49.77	10.8
	Ad.	49.66	11.0
4678	R.	13 57 00.70*	32 15 47.8*
	Ja.	00.30	47.7
	Main	00.48	49.4
	Sm.	00.55	48.5
	Ad.	00.55	48.4
4684	T.	13 58 20.82	51 34 22.5
	R.	20.66*	27.6*
	R.C.	20.61	24.7
	Rob.	20.58	26.6
	Ay.	20.54	25.1
	Ad.	20.64	24.6
4694	Rob.	14 00 53.51	31 26 56.7
	Ja.	53.33	57.2
	Main	53.56	51.9
	Wn.	53.65	53.7
	Ad.	53.57	52.8

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
4699	T.	14	02	55.86	44	26	57.5
	R.			55.88		27	01.0
	H.			55.66			00.6
	Rob.			55.78			01.6
	Ay., 1864			55.85		26	59.8
	Wn.			55.86			59.0
	Leid.			. .			59.5
	Gr., 1869			55.74			59.9
	Ad.			55.85			59.6
4701	M.	14	03	36.93	50	02	56.6
	Rob.			37.12			59.0
	Leid.			. .			58.3
	Ay., 1869			37.08			58.9
	Ad.			37.04			58.1
4714	T.	14	05	48.23	32	53	02.2
	R.			47.95*			01.1*
	Rob.			48.04			02.0
	Main			48.00			03.3
	Wn.			48.06*			02.2
	Ad.			48.05			02.3
4725	From the following star, its comparison by observed differences of right ascension and declination.						
4726	M.	14	09	00.41	52	22	29.1
	Rob.			00.30*			28.6
	Ay., 1860			00.25			28.9
	R. C.$_2$			00.34			29.2
	Ad.			00.33			28.8
4728	H.	14	09	21.09	42	06	26.8
	R. C.			21.10			27.1
	Rob.			. .			26.0
	Ja.			20.70			26.0
	Wn.			21.10			22.8
	Ad.			21.10			22.0
4736	Ay., 1840	14	10	53.84	53	07	03.8
	R. C.			54.20			03.9
	Ja.			53.18			02.4
	Ad.			54.00			03.0
4738	H.	14	11	19.48	40	19	29.9
	R. C.			19.33			29.7
	Ja.			19.04			30.5
	Sm.			19.36*			29.8
	Ad.			19.40			29.9
4741	St.	14	11	37.88	46	39	45.1
	R. C.$_2$			37.86			45.8
	Ay., 1869			37.86			47.4
	Leid.			. .			47.2
	Ad.			37.87			46.3
4742	St.	14	11	44.33	51	56	39.4
	R. C.$_2$			44.18			41.2
	Main, 1868			. .			38.9
	Ad.			44.28			39.8
4747	T.	14	12	42.62	36	05	11.1
	H.			42.67			13.9
	Rob.			42.65*			13.9
	Main			42.72			14.5
	Ay.			42.72			13.0
	Ad.			42.68			13.2
4752	M.	14	12	54.32	51	53	10.7
	Rob.			54.29			11.4
	Ay., 1864			54.38			08.6
	Ay., 1868			54.54			10.2
	Ad.			54.38			09.0
4756	Ay., 1840	14	14	08.26	52	36	35.6
	R. C.			08.52			35.3
	Ja.			08.09			35.5
	Sm.			08.58			34.4
	Ad.			08.39			35.1
4758	H.	14	14	39.74	39	22	11.0
	R. C.			39.72			10.5
	Ja.			39.37			08.5
	Ay., 1864			39.72			09.6
	Ad.			39.72			09.8
4778	R.	14	18	18.24*	37	46	23.0*
	R. C.			18.29			24.4
	Ja.			17.92			22.6
	Wn. Tran.			17.98			. .
	Ad.			18.18			23.2
4783	R. C.	14	20	23.12	38	57	30.7
	Ja.			22.75			30.3
	Ay., 1860			. .			31.5
	Ay., 1864			23.06			32.0
	Wn.			23.14			31.6
	Ad.			23.11			31.1
4797	R.	14	23	05.89*	36	45	24.4*
	Ja.			05.56			24.1
	Main			. .			25.5*
	Wn. Tran., 1868			05.90			. .
	Sm.			05.95			25.2
	Ad.			05.90			24.8
4803	T.	14	24	28.43	32	20	52.8
	R.			28.38			52.4
	Rob.			28.47			54.0
	Wn.			28.31			54.2
	Wn., 1868			28.40*			55.6*
	Ad.			28.40			53.6
4804	M.	14	24	16.81	50	24	18.6
	Rob.			16.88			17.7
	Q.			. .			18.2
	Ay., 1860			16.93			17.7
	R. C.$_2$			16.85			18.6
	Ad.			16.87			18.1
4805	R. C.	14	24	40.76	42	21	46.9
	Ja.			. .			43.8
	Ay., 1860			41.01			43.9
	Ay., 1864			41.08			41.1
	Wn.			41.14			40.6
	Ad.			41.22			39.5
4808	St.	14	26	26.56	30	55	16.4
	R. C.$_2$			26.47			16.9
	Ay., 1864			26.57			16.3
	Ay., 1868, 1869			26.56			16.0
	Eng.			26.63			15.9
	Arg.			26.59			16.7
	R. C., 1868			. .			15.2
	Sm.			26.60			. .
	Ad.			26.56			16.4
4812	St.	14	27	02.74	38	51	20.7
	R. C.$_2$			02.72			20.5
	Wn.			02.55			21.7
	Ad.			02.69			20.9
4816	R. C.	14	28	13.86	37	30	45.3
	Ja.			13.47			45.9
	Wn.			13.84			45.2
	Ad.			13.85			45.3
4820	R.	14	28	52.31*	33	05	00.1*
	Ja.			52.24			00.7
	Main			52.48*			02.1
	Sm.			52.67			00.6
	Ad.			52.40			00.9
4823	M.	14	29	14.29	30	17	21.6
	Rob.			14.28			21.6
	Ay., 1860			14.24			21.1
	R. C.$_2$			14.30			24.1
	Ay., 1864			14.29			. .
	Wn. Tran.			14.20			. .
	Ad.			14.27			22.0
4825	T.	14	29	32.11	37	10	36.0
	H.			31.98			35.6
	Rob.			31.93			35.8
	Main			31.86			36.0
	Wn., 1846			. .			35.4*
	Ad.			31.97			35.9

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
4826	R.	14	29	25.03	53	26	48.6
	T.			25.48			46.6
	R. C.			24.91			50.8
	Rob.			24.66			52.8
	R. C.$_2$			24.58			54.6
	Ad.			24.31			58.9
4827	R.	14	29	31.66*	47	20	06.0*
	Ay., 1845			31.79			06.5
	R. C.			31.92			03.8
	Ja.			31.41			05.5
	Wn.			31.90			05.6
	Ad.			31.84			05.2
4830	R.	14	30	17.69*	49	54	50.8*
	Hud.			17.64			49.0
	R. C.			17.58			48.8
	Ja.			17.12			49.0
	O.			. .			49.7
	Ad.			17.62			49.2
4841	R.	14	33	30.96	44	10	54.8
	Ay., 1845			31.05			55.3
	R. C.			31.08			55.3
	Ja.			30.47			54.0
	Ay., 1864			30.90			55.8
	Ad.			31.00			56.4
4843	St.	14	34	11.07	44	56	41.8
4845	T.	14	34	17.32	54	33	50.7
	R.			17.36			52.5
	H.			17.43			52.3
	R. C.			17.29			51.5
	Rob.			17.30			53.4
	R. C.$_2$			17.08			51.1
	Ad.			17.27			51.4
4863	R.	14	37	35.98*	37	17	25.2*
	Ja.			35.84			23.7
	Main			36.07			24.3
	Sm.			36.25			23.8
	Ad.			36.03			24.0
4870	R.	14	38	53.49*	40	59	21.4*
	Ay., 1845			53.39			20.3
	R. C.			53.57			20.3
	Ja.			53.09			19.3
	Ad.			53.48			20.2
4881	T.	14	39	53.36	45	42	54.9
	R. C.			53.36			55.2
	Rob.			. .			57.6
	R. C.$_2$			53.51			54.4
	Ad.			53.41			55.4
4885	T.	14	40	46.77	42	54	22.7
	R. C.			47.06			26.1
	Wn.			46.92			26.2
	Ad.			46.92			25.1
4897	Arg., 1854	14	44	12.29	38	19	38.15
	Wn.			12.31			37.7
	Wn. Tran.			12.18*			. .
	Ad.			12.29			38.0
4903	M.	14	44	51.31	46	38	16.2
	R. C.			51.46			15.9
	Rob.			. .			18.0
	Ad.			51.31			16.5
4906	Arg., 1854	14	45	33.57	37	47	09.1
	Ay., 1864			33.54			08.8
	Ay., 1868						
	Ad.			33.56			09.0
4907	M.	14	45	26.34	49	14	06.4
	Rob.			26.35			07.9
	Ad.			26.34			06.9
4917	R.	14	47	38.73	46	59	33.0
	R. C.			38.80			32.0
	Ja.			38.36			30.5
	Ad.			38.76			31.5
4918	St.	14	48	16.08	59	48	10.0
4934	B. A. C.	14	51	16.94	41	38	27.1
	R. C.			17.04			26.8
	Ja.			16.72			26.7
	Sm.			17.12			26.5
	Ad.			16.99			26.6
4937	Arg., 1858	14	52	13.92	50	08	25.3
	Wn. Tran. and Mur.			14.08			23.8
	Ad.			13.95			25.0
4942	R. C.	14	54	38.38	40	08	31.3
	Ja.			37.98			30.4
	Ay., 1864			38.34			31.6
	Sm.			38.40			31.8
	Ad.			38.36			31.2
4943	M.	14	54	49.31	39	45	44.3
	Rob.			. .			44.0
	Ay., 1860			49.40			43.5
	Ad.			49.36			43.8
4952	R.	14	56	22.70*	47	46	19.8*
	R. C.			22.90			18.3
	Ja.			22.32			19.5
	Ad.			22.83			18.8
4958	American Nautical Almanac star.						
4961	Ay., 1845	14	58	06.74	35	41	46.2
	H.			06.83			46.7
	Rob.			06.80*			47.4
	Ad.			06.79			46.8
4965	R.	14	58	42.08	45	08	04.4
	Ay., 1840			41.79			02.0
	R. C.			41.81			03.2
	Ja.			41.45			02.0
	Sm.			41.85			01.6
	Ad.			41.89			02.3
4974	M.	14	59	40.12	48	08	28.1
	R. C.$_2$			40.22			28.5
	Rob.			40.20			29.7
	Ay., 1860			40.07			28.8
	Wn.			40.08			27.8
	Wn. Tran.			40.26			. .
	Ad.			49.16			28.8
4980	M.	15	01	17.26	48	[37	53.1]§
	Rob.			17.29		38	05.1
	R. C.$_2$			17.36			04.4
	Leid.			. .			05.2
	Ad.			17.30			04.5
4992	H.	15	02	42.42	55	02	17.8
	R. C.			42.37			17.4
	Ja.			41.74			16.8
	Sm.			42.60			16.6
	Ad.			42.39			17.0
5000	R.	15	05	35.07*	33	33	11.9*
	Ja.			34.72			12.5
	Main			34.90*			12.3
	Sm.			35.14			12.2
	Ad.			34.98			12.2
5019	R.	15	07	23.42	49	09	51.7
	R. C.			23.46			52.5
	Ja.			23.04			50.3
	Ay., 1860			23.47			52.8
	Ad.			23.45			51.5
5026	R.	15	08	49.95*	38	44	01.7*
	R. C.			50.01			03.5
	Ja.			49.43			03.0
	Wn. Tran.			49.98*			. .
	Ad.			49.99			02.5

§ 10″ added in taking the mean.

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.			No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″			h.	m.	s.	°	′	″
5033	Ay., 1845	15	09	39.08	42	38	16.8	5155	M.	15	30	39.64	39	25	35.2
	R. C.			39.23			17.5		Rob.			. .			35.3
	Ja.			38.71			15.0		Ay., 1860			39.75			34.3
	Arg.			39.14*			17.3*		Wn. Tran.			39.47*			. .
	Wn.			39.34			15.4		Ad.			39.65			34.8
	Ad.			39.21			16.3								
5036	St.	15	10	27.85	33	46	56.1	5157	R. C.	15	30	52.94	43	34	55.8
C	R. C_2			27.89			56.5		Ja.			52.59			53.9
	Ay., 1864			27.84			56.1		Ay., 1864			52.86			56.6
	Ay., 1868, 1869			27.81			56.1		Wn.			53.02			56.2
	Ad.			27.85			56.2		Ad.			52.94			55.6
5061	M.	15	14	58.30	30	04	15.2	5164	Ay., 1845	15	31	29.62	50	06	51.4
	Rob.			58.37			15.8		R. C.			29.82			50.9
	Ay., 1864			58.31			14.3		Ja.			29.46			50.4
	Ad.			58.33			14.9		Ad.			29.72			50.6
5064	T.	15	15	33.97	50	40	00.5	5168	St.	15	33	20.27	40	45	41.8
	R. C.			33.70			02.5	B	Wn.			20.34			41.4
	Ay., 1850			33.66			. .		Ad.			20.29			41.7
	R. C_2			33.73			02.7								
	Wn. Tran. and Mur.			33.61			02.6	5175	Ay., 1845	15	34	08.50	44	00	45.2
	Wn.			33.86			00.6		R. C.			08.60			44.9
	Ad.			33.76			01.7		Ja.			08.20			44.7
									Ad.			08.55			44.9
5071	H.	15	16	24.80	52	24	34.5								
	R. C.			24.61			34.2	5177	T.	15	34	15.76	47	12	43.7
	Ja.			24.14			34.4		H.			15.62			42.5
	Sm.			24.74			33.8		R. C.			15.76			41.1
	Ad.			24.71			34.1		Rob.			15.90			41.8
									R. C_2			15.82			39.7
5072	M.	15	16	48.31	33	22	55.8		Wn.			15.96			39.0
	Rob.			. .			57.0		Ad.			16.11			38.0
	Ay., 1864			48.29			55.1								
	Main			. .			55.7	5178	St.	15	34	40.24	37	02	32.9
	Main, 1868			48.49			57.3		R. C_2			40.29			33.8
	Ad.			48.30			55.8		Main			40.20*			35.8*
									Ay., 1869			40.24			33.1
5075	M.	15	18	02.47	30	44	26.2		Ad.			40.25			33.3
	Rob.			02.31			26.4								
	Q.			02.40			25.1	5181	H.	15	34	55.18	50	49	55.6
	R. C_2			02.50			26.1		R. C.			55.10			56.3
	Main			02.40			26.3		Ja.			54.54			[52.5]
	Main, 1868			02.39			25.8*		Wn.			55.22			54.1
	Ad.			02.42			25.9		Ad.			55.16			55.1
5076	R.	15	17	59.84	40	01	45.2	5204	M.	15	39	03.60	32	54	42.5
	H.			59.87			44.6		Rob.			. .			42.8
	R. C.			59.98			43.1		Ay., 1860			. .			42.2
	Ja.			59.59			43.2		Ay., 1864			03.72			41.8
	Ad.			59.92			43.9		Ad.			03.66			42.2
5077	Ay., 1846	15	17	50.15	52	47	32.8	5210	H.	15	39	27.15	52	45	22.1
	R. C.			50.25			31.7		Ay., 1845			26.94			20.8
	Ja.			49.63			30.2		R. C.			27.10			20.5
	Ad.			50.20			31.3		Ay., 1869			26.68			22.5
									Leid.			. .			21.5
5084	American Nautical Almanac	star.							Ad.			26.71			22.0
5092	Ay., 1840	15	21	04.81	47	30	08.1	5248	H.	15	44	36.79	55	45	36.9
	R. C.			04.96			07.2		R. C.			36.82			35.5
	Ja.			04.48			08.6		Rob.			. .			35.8
	Ad.			04.89			07.7		Ja.			36.49			35.4
									Ad.			36.80			35.7
5097	St.	15	22	09.05	59	24	16.2								
C	R. C_2			09.19			16.6	5259	M.	15	46	31.28	36	02	46.4
	Pulc.			. .			16.0		Rob.			31.21*			45.5*
	Ay., 1869			09.09			17.4		Q.			. .			46.6*
	Leid.			. .			16.9		Ay., 1860			31.36			46.2
	Ad.			09.11			16.6		R. C_2			31.28			47.9
									Wn.			31.16*			47.7*
5113	R.	15	25	24.59	48	08	35.5		Ad.			31.28			46.7
	R. C.			24.60			36.0								
	Ja.			24.07			34.7	5271	M.	15	48	20.79	42	48	08.3
	Ad.			24.60			35.0		R. C.			21.14			. .
									Rob.			[20.61]			11.6
5122	St.	15	26	26.36	41	15	37.0		Ay., 1860			21.16			07.7
5130	St.	15	27	18.44	41	19	28.6		R. C_2			21.12			08.0
									Wn.			21.26			08.4*
5131	St.	15	27	53.28	31	46	55.1		Ad.			21.09			08.7

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
5279	H.	15	49	22.35	56	11	46.1
	Ay., 1845			22.22			46.3
	R. C.			22.22			46.3
	Ay., 1850			. .			47.4
	Ja.			21.58			[43.8]
	Ad.			22.26			46.2
5287	M.	15	50	[28.40]	43	30	13.8
	R. C.			27.95			12.5
	Rob.			28.00			11.2
	R. C.$_2$			27.88			12.9
	Ad.			27.94			12.5
5295	M.	15	51	14.66	38	18	34.1
	Rob.			. .			33.7
	Ay., 1864			14.81			32.4
	Ad.			14.74			33.2
5298	M.	15	51	18.18	42	55	50.1
	Rob.			18.39			52.0
	Ad.			18.25			50.8
5307	R. C.	15	53	24.35	59	16	21.7
	Ja.			23.88			19.8
	Pulc.			. .			21.7
	Wn.			24.43			22.1
	Ad.			24.39			21.5
5310	T.	15	54	20.61	36	59	56.2
	H.			20.49			57.4
	Rob.			20.69			57.7
	Ay., 1864			20.72			58.2
	Main			. .			58.5
	Wn.			. .			58.7
	Ad.			20.63			57.8
5313	St.	15	54	49.36	55	06	12.4
	Wn.			49.60			13.4
	Ad.			49.44			12.7
5316	R. C.	15	55	31.48	50	14	18.1
	Ja.			31.06			15.8
	—			. .			18.8
	Ad.			31.51			17.4
5319	M.	15	56	16.25	33	40	55.4
	Rob.			16.16			55.7
	Q.			. .			. .
	Ay., 1860			16.00			55.0
	R. C.$_2$			15.92			55.0
	Ay., 1864			16.00			54.9
	Ay., 1868			15.96			54.2
	Ad.			16.05			55.0
5321	M.	15	56	25.98	30	12	07.2
	Rob.			26.17			08.1
	Main			26.12			07.3
	Wn.			26.16			06.5
	Ad.			26.10			07.2
5336	T.	15	58	43.65	36	58	38.4
	H.			43.34			40.4
	Rob.			43.69			40.5
	Ay., 1864			43.55			39.2
	Main			43.84*			40.9*
	Wn.			43.51			41.3
	Ad.			43.57			40.0
5338	M.	15	58	54.13	46	23	03.4
	Rob.			54.26			05.0
	Ay., 1860			54.41			04.5
	Arg.			54.22			04.3
	Ad.			54.26			04.1
5341	R. C.	15	58	54.15	53	15	50.4
	Ja.			53.86			49.0
	Ad.			54.15			49.5

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
5348	St.	15	59	32.86	58	53	57.9
	R. C.$_2$			33.04			58.0
	Pulc.			. .			58.3
	Ay., 1869			32.99			58.8
	Leid.			. .			58.6
	Ad.			32.94			58.3
5385	M.	16	04	24.06	36	48	36.3
	Rob.			24.05			36.0
	Q.			24.11			35.3
	Ay., 1860			24.16			35.2
	R. C.$_2$			24.11			35.2
	Ay., 1864			24.12			35.0
	Ay., 1868, 1869			24.10			35.1
	Ad.			24.10			35.4
5388	St.	16	04	49.73	45	15	48.6
	R. C.$_2$			49.72			48.5
	Ad.			49.73			48.6
5400	M.	16	06	21.14	44	09	12.3
	Rob.			21.16			13.5
	R. C.$_2$			21.03			12.6
	Wn.			21.21			13.2
	Ad.			21.14			12.8
5411	T.	16	07	13.93	36	44	56.3
	H.			13.84			57.5
	Rob.			14.01			57.0
	Main			. .			59.4
	Wn.			13.88			. .
	Ad.			13.92			57.6
5415	R. C.	16	06	36.01	58	15	49.6
	Sm.			36.23			49.5
	Ad.			36.11			49.4
5417	R. C.	16	07	39.39	42	41	44.5
	Ja.			39.06			43.9
	Ad.			39.39			44.0
5432	M.	16	09	59.76	34	10	35.4
	Rob.			59.74			36.5
	Q.			59.82			34.8
	R. C.$_2$			59.82			35.4
	Main			59.84*			35.2
	Ad.			59.80			35.4
5460	H.	16	15	38.50	40	00	32.7
	R. C.			38.46			32.2
	Ja.			38.07			29.8
	Ad.			38.48			31.4
5461	R. C.	16	15	41.77	49	20	16.2
	Ja.			41.34			16.2
	Wn.			41.86			16.4
	Ad.			41.82			16.1
5463	M.	16	15	58.98	46	36	42.4
	Rob.			58.89			44.1
	Ay., 1860			59.02			42.8
	Ay., 1864			58.88			43.1
	Ay., 1868			59.10			41.6
	Ad.			58.97			42.7
5473	M.	16	17	13.62	31	11	01.3
	Rob.			13.63			01.6
	Ay., 1860			13.67			00.5
	Ay., 1864			13.68			00.2*
	Ad.			13.65			00.8
5479	T.	16	17	39.03	34	05	40.2
	Ay., 1845			38.96			41.8
	Rob.			39.21			. .
	Ay., 1860			39.13			40.8
	Ad.			39.08			41.4
5480	T.	16	17	46.70	33	59	42.2
	Ay., 1845			46.54			43.3
	Rob.			46.68			43.3
	Ay., 1860			46.73			. .
	Ad.			46.66			43.5

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
5484	M.	16	18	08.60	32	37	33.4
	Rob.			. .			35.0
	Q.			. .			34.3
	Ay., 1860			. .			32.6
	Ay., 1864			08.58			33.0
	Main			08.58*			33.1*
	Wn.			08.61			32.7
	Ad.			08.60			33.4
5496	M.	16	20	56.95	37	40	47.6
	Rob.			57.05*			48.0*
	Ay., 1860			57.01			47.0
	Ay., 1864			57.03			47.0
	Wn.			56.91			. .
	Ad.			56.98			47.2
5497	Ay., 1840	16	20	55.24	44	58	33.4
	R. C.			55.24			34.6
	Ja.			54.84			32.3
	Ad.			55.24			33.3
5499	R. C.	16	21	20.30	52	34	29.2
	Ja.			19.74			30.0
	Ad.			20.30			29.4
5502	St.	16	21	41.51	55	29	22.7
	Ay., 1868			41.47			24.3
	Ad.			41.50			23.2
5503	R. C.	16	21	50.28	52	00	01.4
	Ja.			49.59			01.0
	Ad.			50.28			01.1
5515	M.	16	23	12.57	32	58	[49.8]
	T.			. .			44.2
	Rob.			. .			43.9
	Ay., 1864			12.57			42.3
	Main			12.56			43.9
	Ad.			12.57			43.4
5523	M.	16	24	32.19	42	09	30.7
	Rob.			32.43			. .
	Ay., 1860			32.32			29.5
	Ad.			32.31			30.1
5534	M.	16	26	49.35	33	47	00.3
	Ay., 1864			49.26		46	57.7
	Main			49.27*		47	00.2*
	Ad.			49.30		46	59.2
5535	T.	16	26	40.30	49	14	02.9
	R. C.			40.39			03.1
	Rob.			40.29			05.0
	Ad.			40.33			03.4
5541	M.	16	28	36.76	30	45	43.8*
	Rob.			36.95			44.1
	Ay., 1864			36.92			44.5
	Main			36.72			45.0
	Ad.			36.84			44.2
5546	T.	16	29	20.09	38	20	57.7
	H.			19.85			58.3
	R. C.			19.93			59.1
	Rob.			19.95		21	00.1
	Ad.			19.95		20	58.8
5549	R.	16	29	39.27	50	24	21.0
	R. C.			39.18			22.3
	Ja.			38.86			19.4
	Ad.			39.20			20.5
5552	St.	16	30	04.43	42	41	45.2
	Ay., 1869			04.44			45.9
	Leid.			. .			45.5
	Ad.			04.43			45.6
5559	R. C.	16	30	56.04	52	29	50.2
	Ja.			55.19			49.4
	Ad.			56.04			50.0

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
5568	H.	16	32	32.44	46	52	02.1
	R. C.			32.51			01.7*
	Ja.			32.02		51	59.1
	Ad.			32.48		52	00.8
5574	M.	16	33	14.03	53	09	05.9
	Rob.			14.03			07.7
	Ay., 1869			14.10			07.6
	Leid.			. .			07.4
	Ad.			14.05			07.1
5575	M.	16	33	16.45	53	10	32.6
	Rob.			16.38			34.7
	Ay., 1869			16.66			35.1
	Ad.			16.50			34.0
5596	M.	16	35	21.14	49	10	24.6
	Rob.			21.25			25.9
	Ay., 1860			21.44			24.9
	Wn.			. .			. .
	Ad.			21.26			25.0
5599	Ay., 1845	16	35	28.74	56	15	35.6
	H.			29.05			36.4
	R. C.			28.98			36.2
	Ja.			28.44			36.0
	Ad.			28.92			35.8
5604	St.	16	36	34.51	31	49	49.5
	$R. C._2$			34.53			51.0
	Ay., 1864			34.52			49.4
	Ay., 1868, 1869			34.52			50.2
	Eng.			34.51			49.2
	Arg.			34.62			50.2
	Leid.			. .			50.4
	Sm.			34.53			. .
	Ad.			34.53			50.0
5615	H.	16	38	36.99	36	44	42.7
	Ja.			36.52			41.3
	Ay., 1864			36.91			41.7
	Sm.			37.04			42.2
	Ad.			36.95			42.0
5617	American Nautical Almanac star.						
5619	T.	16	39	15.22	34	16	11.2
	H.			15.05			12.0
	Main			15.08			13.2
	Ad.			15.12			12.4
5629	Ay., 1845	16	40	24.79	55	55	11.2
	R. C.			24.88			11.1
	Ay., 1850			. .			13.6
	Ja.			24.46			11.0
	Ad.			24.84			11.0
5643	St.	16	42	55.69	57	00	20.5
	Ay., 1868			55.66			21.5
	Eng.			55.78			20.4
	Ad.			55.71			20.7
5644	R. C.	16	43	19.81	42	27	46.9
	Ja.			19.31			45.6
	Ay., 1864			19.80			45.3
	Ad.			19.80			45.8
5652	M.	16	44	23.57	30	10	52.8
	Rob.			23.56			53.0
	Ay., 1864			23.59			49.9
	Main			23.57			48.3
	Ad.			23.57			50.9
5658	T.	16	44	17.63	55	37	55.5
	H.			17.51			55.4
	R. C.			17.49			55.3
	$R. C._2$			17.38			55.2
	Ad.			17.50			55.3

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
5666	M.	16	45	46.29	30	01	16.8
	Rob.			46.30			16.6
	Ay., 1860			46.22			16.4
	Wn.			. .			14.7
	Ad.			46.27			16.0
5667	M.	16	45	34.46	46	12	06.1
	Rob.			34.56			07.3
	Ay., 1860			34.59			06.9
	Ad.			34.54			06.6
5693	M.	16	48	13.67	31	54	36.7
	Rob.			13.42			. .
	Ay., 1860			13.68			35.5
	Ad.			13.59			36.1
5706	T.	16	50	43.73	46	44	31.3
	H.			43.66			32.9
	R. C.			43.71			32.4
	Rob.			43.77			32.8
	Arg.			43.81			32.9
	Ad.			43.72			32.3
5731	St.	16	55	30.46	31	06	41.8
	R. C.$_2$			30.42			42.6
	Ay., 1864			30.48			42.5
	Ay., 1868, 1869			30.47			42.2
	Ad.			30.46			42.2
5747	American Nautical Almanac.						
5752	T.	16	57	03.88	56	52	21.7
	Ay., 1845			04.13			20.8
	R. C.			04.24			20.8
	R. C.$_2$			03.97			20.8
	Wn.			04.12			21.2
	Ad.			04.07			20.9
5763	M.	16	59	01.16	35	35	31.8
	Rob.			01.14			30.9
	R. C.$_2$			00.98			30.2
	Ad.			01.09			30.8
5775	T.	17	01	16.47	43	58	58.5
	Ay., 1840			16.50			59.5
	R. C.			16.54			59.8
	Ad.			16.50			59.3
5776	T.	17	01	30.79	48	58	40.1
	H.			30.65			40.1
	R. C.			30.67			39.3
	Rob.			30.74			41.8
	Sm.			30.87			38.7
	Ad.			30.71			40.0
5777	M.	17	02	12.99	35	29	[37.1]
	Ja.			12.23			27.1
	Main			12.88*			26.4*
	Sm.			12.96			26.2*
	Ad.			12.93			26.7
5785	M.	17	02	44.56	54	38	07.1
	Rob.			44.62			07.5
	Q.			. .			[11.3]
	Ay., 1869			44.74			08.3
	Leid.			. .			08.1
	Ad.			44.64			07.7
5788	T.	17	03	[35.95]	36	05	55.0
	Rob.			36.25			
	Ay., 1860			36.22			55.2
	Ay., 1864			36.25			55.7
	Wn.			. .			56.8
	Ad.			36.22			55.9
5790	St.	17	03	41.90	40	40	50.1
5795	T.	17	05	13.15	51	00	04.1
	R. C.			13.11			06.2
	Wn. Tran. and Mur.			13.13*			07.3*
	Wn.			13.13			05.2
	Ad.			13.13			05.4
5797	T.	17	05	08.60*	58	25	59.0
	H.			08.98			58.2
	R. C.			08.98			59.0
	Rob.			08.76*			58.3
	R. C.$_2$			09.11			57.4
	Ad.			09.34			55.4
5801	T.	17	05	23.71	55	55	35.8
	H.			23.90			37.8
	R. C.			23.77			37.1
	Wn.			23.92			38.7
	Ad.			23.82			37.3
5834	St.	17	10	41.70	36	57	04.8
	Ay., 1869			41.61			04.0
	Ad.			41.67			04.5
5842	M.	17	12	42.46	33	14	09.7
	Rob.			42.39			. .
	Wn. Mur.			. .			09.0*
	Ad.			42.43			09.5
5847	M.	17	13	21.70	37	25	25.8
	Rob.			21.62			24.8
	Q.			21.73			26.3
	Ay., 1860			21.64			25.0
	R. C.$_2$			21.65			24.3
	Ay., 1864			21.60			24.7
	Wn.			21.63			24.1
	Ad.			21.65			24.9
5853	T.	17	13	37.87	49	49	30.6
	H.			37.58			33.3
	R. C.			37.59			33.5
	R. C.$_2$			37.75			32.9
	Ad.			37.70			32.5
5863	M.	17	15	59.00	32	37	48.1
	Rob.			58.95			48.3
	Q.			58.98			46.5
	R. C.$_2$			58.95			49.0
	Ay., 1864			58.98			46.3
	Wn.			. .			46.3
	Sm.			59.02			46.5
	Ad.			58.97			47.2
5871	M.	17	16	49.00	46	21	50.3
	Rob.			49.31			51.4
	Leid.			. .			51.2
	Ay., 1869			49.32			51.9
	Ad.			49.21			51.1
5874	R.	17	17	[37.25*]	40	05	56.9*
	H.			37.41			57.3
	R. C.			37.59			56.5
	Ja.			37.10			54.7
	Ay., 1864			37.53			55.1
	Wn.			37.60			55.6
	Ad.			37.50			53.9
5886	M.	17	19	22.43	37	15	43.2
	Rob.			22.49			. .
	Q.			22.34			43.7
	R. C.$_2$			22.22			45.1
	Wn.			. .			45.0*
	Leid.			. .			42.8
	Ay., 1869			22.28			43.6
	Ad.			22.35			43.2
5895	M.	17	20	07.31	37	[03	57.7]
	Ja.			07.12			50.4
	R. C.$_2$			. .			50.4
	Ay., 1864			07.30			50.9
	Ad.			07.30			50.5
5902	T.	17	21	12.70	57	07	30.8
	H.			12.83			30.3
	R. C.			12.81			30.9
	Rob.			12.79			[33.9*]
	Ad.			12.78			30.6
5911	St.	17	23	25.36	48	21	55.9
	Wn.			25.57			57.6
	Ad.			25.43			56.5

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
5918	T.	17 24 [12.05]	58 45 23.4
	H.	12.52	23.6
	R. C.	12.45	23.6
	Rob.	12.37	24.0
	Pulc.	. .	24.0
	Ad.	12.45	23.6
5927	T.	17 26 11.43	31 15 08.5
	H.	11.34	09.1
	Rob.	11.30	09.1
	Main	11.42	09.8
	Ad.	11.37	09.2
5929	R. C.	17 26 29.67	38 58 35.9
	Ja.	29.20	35.4
	Ad.	29.67	35.7
5937	American Nautical Almanac	star.	
5944	R.	17 29 09.65	41 19 58.5
	H.	09.41	20 01.2
	R. C.	09.48	01.1
	Ja.	09.66	00.3
	Ay., 1860	09.56*	19 59.6
	Ay., 1864	09.46	58.9
	Ay., 1868, 1869	09.45	59.4
	Wn.	09.42	58.6
	Ad.	09.49	59.3
5950	St.	17 29 42.90	55 16 12.4
	R. $C._2$	42.93	11.0
	Wn.	42.95	13.4
	Ad.	42.92	12.2
5951	St.	17 29 48.31	55 15 30.6
	R. $C._2$	48.23	30.2
	Wn.	48.25	31.8*
	Ad.	48.28	30.6
5962	T.	17 31 [50.99]	30 51 48.3
	R.	51.15*	48.2*
	H.	51.07	50.1
	Rob.	51.23	50.1
	Main	51.36	50.2
	Ad.	51.20	49.6
5975	M.	17 33 21.54	48 38 30.4
	Rob.	21.48	33.3
	Ay., 1864	21.66	32.6
	Ad.	21.56	31.9
5986	T.	17 35 14.21	31 16 10.9
	R.	14.26	12.4
	H.	14.17	12.2
	Rob.	14.38	11.1*
	Ay., 1864	14.32	11.5
	Main	. .	10.1
	Ad.	14.27	11.4
5990	St.	17 35 [56.48]	46 04 24.5
	Ay., 1845	56.26	. .
	R. C.	56.15	. .
	Rob.	56.14	. .
	Ay., 1850	56.14	. .
	R. $C._2$	56.11	26.2
	Pulc.	56.17	. .
	Ad.	56.17	25.1
5997	R.	17 36 50.40	43 [32 02.6*]
	R. C.	50.45	31 58.6
	Ja.	49.96	55.4
	Ad.	50.42	56.8
6013	R.	17 39 23.05	44 08 23.8
	R. C.	23.32	23.3
	Ja.	23.07	23.6
	Ad.	23.18	23.3
6036	H.	17 43 46.71	47 39 22.8
	R. C.	46.84	21.7
	Ja.	46.25	21.8
	Ad.	46.78	22.0
6052	M.	17 46 04.98	50 48 40.4
	Rob.	05.23	41.0
	Q.	05.14*	. .
	R. $C._2$	04.92	41.2
	Wn.	05.30	(30.7
	Ad.	05.11	40.7
6056	M.	17 46 47.01	48 25 41.3
	Rob.	47.06	43.8
	Ay., 1864	47.19	43.0
	Wn.	47.06	43.2
	Ad.	47.08	42.7
6062	M.	17 47§ 56.67	40 00 36.8
	H.	48 00.65	37.0
	Rob.	. .	38.2
	Ad.	00.66	37.2
6068	M.	17 49 12.46	40 01 57.4
	R. C.	13.84	. .
	Rob.	13.87	58.3
	Ay., 1864	13.96	56.9
	Ad.	13.89	57.4
6079	St.	17 51 22.12	56 53 34.1
	R. $C._2$	22.07	33.7
	Ad.	22.10	34.0
6082	St.	17 51 57.98	37 16 05.6
6087	M.	17 53 43.44	30 12 03.6
	Rob.	43.24	04.8
	Ay., 1860	43.24	02.8
	Ay., 1868	43.28*	03.7
	Ad.	43.30	03.6
6091	American Nautical Almanac	star.	
6095	R. C.	17 54 10.71	43 25 44.4
	Ja.	(10.32)	45.4
	Ad.	10.71	44.7
6109	T.	17 56 21.91	45 30 29.4
	H.	. .	30.3
	R. C.	21.92	31.1
	Wn.	22.00	29.1
	Ad.	21.96	30.1
6129	R.	17 59 52.83	48 27 34.0
	Ay., 1845	52.88	33.4
	H.	52.81	32.0
	R. C.	52.88	33.2
	Ja.	52.39	32.4
	Ay., 1860	52.96	32.0
	Ad.	52.87	33.0
6147	M.	18 02 16.81	30 32 43.1
	Rob.	16.83	44.2
	Q.	. .	43.0
	Ay., 1864	16.84	42.5
	Main	. .	44.0
	Ad.	16.83	43.5
6162	H.	18 03 42.74	43 26 .
	R. C.	42.89	51.2
	Rob,	42.76	53.3
	Ja.	(42.31)	50.4
	Ad.	42.80	51.3
6178	M.	18 07 12.19	31 22 29.4
	Rob.	11.96	30.0
	Ay., 1860	12.01	30.3
	Ay., 1864	12.05	31.2
	Wn. Tran.	11.85	. .
	Ad.	12.03	30.1
6184	R. C.	18 07 48.62	56 14 19.2
	Ja.	48.06	18.7
	Ad.	48.62	18.8

§ Mädler, $1' = 4^s$ in error.

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
6185	R.	18	07	57.48	54	14	53.2
	H.			57.37			52.7
	R. C.			57.53			50.6
	Rob.			57.45			52.3
	Ay., 1845			57.46			51.2
	Ja.			57.08			53.5
	R. C.$_2$			57.47			54.3
	Wn.			57.86			57.5
	Ad.			57.91			58.3
6193	R.	18	08	54.55	38	44	21.7
	R. C.			54.64			23.1
	Ja.			54.30			22.8
	Wn.			54.60			22.7
	Ad.			54.60			22.4
6203	St.	18	11	45.25	42	07	03.3
	Ay., 1864			45.44			03.8
	Ad.			45.31			03.5
6216	R.	18	12	29.62	56	32	45.4
	Ay., 1845			29.51			44.5
	R. C.			29.78			44.9
	Rob.			29.48			. .
	Ay., 1850			. .			45.6
	Ja.			29.35			44.6
	Ad.			29.60			44.5
6218	R.	18	13	09.02	40	53	13.7*
	Ay., 1845			09.29			16.3
	H.			09.31			16.7
	R. C.			09.39			17.4
	Rob.			09.27			16.2
	Ja.			08.87			17.6
	Ay., 1860			09.19			16.8
	Ad.			08.70			17.9
6235	M.	18	15	28.95	36	00	33.2
	Rob.			28.82			32.3
	Q.			28.87			. .
	Ay., 1860			28.88			32.5
	Ad.			28.88			32.5
6246	Ay., 1845	18	17	00.40	51	17	38.2
	H.			00.40			. .
	R. C.			00.56			38.7
	Ja.			00.15			37.8
	Ad.			00.48			37.9
6252	R.	18	17	59.20	49	39	53.1
	R. C.			59.17			54.6
	Ja.			58.64			53.9
	Ad.			59.18			53.4
6255	R.	18	18	20.84	49	03	30.4
	Ay., 1845			20.86			31.8
	H.			20.86			31.2
	R. C.			20.93			31.9
	Rob.			20.89			32.3
	Ja.			20.54			31.6
	Ou.			. .			33.0
	Ay., 1860			20.90			32.5
	Ad.			20.88			31.5
6258	R.	18	18	32.96	51	14	27.4
	Ay., 1845			33.03			28.0
	R. C.			33.03			29.6
	Ja.			32.43			30.0
	Wn. Tran.			33.36			. .
	Ad.			33.05			28.4
6268	M.	18	20	06.66	39	26	23.8
	Rob.			06.79			26.3
	Ay., 1864			06.74			23.9
	Ad.			06.73			24.5
6289	St.	18	22	04.91	58	43	43.5

No.	Authority.	Right Ascension, 1875.0.			Declination, 1870.0.		
		h.	m.	s.	°	′	″
6311	R. C.	18	24	58.04	59	37	40.5
	Rob.			58.15			38.4
	Ja.			57.61			38.5
	Ad.			58.10			38.5
6318	R.	18	25	58.70	59	28	(01.2*)
	Ay., 1845			58.74		27	57.5
	R. C.			58.69			56.8
	Ja.			58.36			59.1
	Pulc.			. .			58.2
	Ad.			58.70			58.0
6335	R. C.	18	29	19.85	52	01	20.6
	Rob.			19.78			20.2
	Ja.			19.21			20.5
	Ad.			19.82			20.2
6348	M.	18	30	24.99	56	57	00.0
	Rob.			25.14			00.8
	Ad.			25.06			00.2
6349	M.	18	31	10.49	38	47	37.8
	Rob.			10.69			38.7
	Q.			10.51			. .
	R. C.$_2$			10.44			37.6
	Ad.			10.53			37.9
6350	H.	18	31	06.44	52	15	19.2
	R. C.			06.55			17.8
	Rob.			06.59			18.0
	Ja.			05.97			17.8
	Ay., 1860			06.52			17.9
	Ad.			06.52			18.0
6355	American Nautical Almanac star.						
6357	T.	18	33	(58.46)	39	33	31.3
	R. C.			58.81			32.1
	Rob.			. .			33.5
	Wn.			58.82			31.7
	Ad.			58.82			32.2
6364	R. A.	18	35	31.28	40	49	18.4
	Rob.			. .			18.8
	Ja.			30.98			18.1
	Ad.			31.28			18.1
6365	T.	18	35	57.71	38	15	07.4
	R. C.			57.92			08.2
	Ay., 1864			57.93			07.3
	Ad.			57.85			07.8
6368	M.	18	36	05.16	55	07	47.9
	Rob.			05.19			50.2
	Ja.			04.65			47.7
	R. C.$_2$			04.99			48.3
	Wn.			05.00			48.6
	Ad.			05.08			48.4
6372	T.	18	37	00.45	52	04	43.3
	R.			00.23			43.2
	H.			00.23			44.3
	R. C.			00.48			42.5
	Rob.			00.29			43.6
	Leid.			. .			44.4
	Ad.			00.34			43.7
6390	St.§	18	40	11.89	37	32	26.5
	R. C.$_2$			11.73			28.0
	Ay., 1869			11.89			25.8
	Leid.			. .			25.0
	Ad.			11.85			26.1
6391	St.	18	40	14.23	39	28	58.6
	R. C.$_2$			14.18			59.1*
	Ad.			14.20			58.7

§ Reduced to the mean of the two stars.

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
6392	M.	18 40 28.06	37 29 17.4
	Rob.	27.99	28 32.1
	Ay., 1860	28.10	31.1
	R. C_2	28.07	32.2
	Ay., 1864	28.05	31.6
	Main	27.91	. .
	Ad.	28.07	31.6
6394	M.	18 40 29.93	37 27 53.3
	Rob.	29.99	53.4
	Ay., 1860	29.90	53.5
	R. C_2	30.10	51.8
	Ay., 1864	29.89	53.9
	Ad.	29.95	53.1
6395	M.	18 40 12.62	55 24 46.9
	Rob.	12.44	46.7
	Wn.	12.76	48.2
	Ad.	12.61	47.1
6404	R.	18 42 [12.55]	41 18 . .
	H.	13.11	30.5
	R. C.	13.29	30.8
	Ja.	12.61	30.7
	Ad.	13.29	30.5
6419	R.	18 43 55.34	52 51 05.6
	R. C	55.44	04.6
	Rob.	55.36	06.3
	Ja.	55.26	05.0
	Ay., 1860	55.48	04.5
	Ad	55.40	04.8
6421	R. C.	18 44 16.01	49 17 39.1
	Ja.	15.65	37.2
	Ay., 1860	14.80*	39.6*
	Ay., 1864	15.97	38.8
	Ad.	15.96	38.4
6426	M.	18 45 07.06	32 40 11.5
	Rob.	06.83	13.0
	R. C_2	06.68	12.0
	Ay., 1864	06.80	11.4
	Ad.	06.77	11.8
6427	M.	18 45 12.80	32 24 29.1
	Rob.	12.94	30.2
	R. C_2	12.74	29.3
	Ay., 1864	12.87	29.1
	Wn.	12.85	28.6
	Ad.	12.84	29.2
6428	R.	18 44 (58.15*)	48 37 29.2*
	Ay., 1845	58.30	29.2
	H.	58.26	29.8
	R. C.	58.45	29.6
	Rob.	58.41	31.2
	Ja.	57.76	30.7
	Ou.	. .	30.4
	Ay., 1860	58.40	31.0
	Ad.	58.39	30.2
6429	American Nautical Almanac star.		
6452	R.	18 48 47.14	52 48 39.9*
	H.	47.04	42.8
	R. C.	46.95	42 3
	Rob.	47.01	41.7
	Ja.	46.60	43.3
	Ay., 1860	47.14*	47.8
	Ay., 1864	47.08	48.8
	Ad.	47.04	50.9
6456	M.	18 49 21.62	36 48 57.9
	Rob.	21.59	60.8
	Ay., 1860	21.61	59.1
	Main	21.57	59.6
	Ad.	21.60	59.2
6463	St.	18 49 21.24	59 14 09.3
	Pulc.	. .	09.0
	Ay., 1864	21.40	09.9
	Leid.	. .	09.5
	Ad.	21.28	09.3
6466	M.	18 50 07.94	36 44 27.5
	Rob.	07.73	27.6
	Ay., 1860	07.98	26.9
	Main	07.94	29.2
	Ad.	07.90	27.8
6468	M.	18 50 [17.35]	33 48 36.9
	Rob.	17.88	36.8
	Ja.	17.44	35.8
	Sm.	17.64	35.2
	Ad.	17.70	36.0
6470	R.	18 50 07.62	50 33 13.6
	H.	07.67	13.6*
	R. C.	07.64	13.6
	Ja.	07.34	12.4
	Ou.	. .	13.3
	Ad.	07.64	12.9
6473	H.	18 50 51.84	41 26 37.6
	R. C.	52.01	37.8
	Ja.	51.86	37.4
	Ad.	51.92	37.5
6475	St.	18 51 31.87	43 46 56.0
	Ay., 1866, 1869	31.88	57.1
	Ad.	31.87	56.4
6476	T.	18 51 29.44	48 42 13.6
	R.	29.30	14.9
	H.	29.27	15.7
	R. C.	29.42	14.2
	Ad.	29.41	13.9
6477	R. C.	18 51 36.10	57 19 41.5
	Ja.	36.57	42.5
	Ad.	36.10	41.8
6480	M.	18 52 20.50	32 44 30.9
	Rob.	20.48	32.3
	Ja.	20.30	31.2
	R. C_2	20.37	31.5
	Ay., 1864	20.39	31.9
	Sm.	20.37	29.9
	Ad.	20.44	31.2
6491	St.	18 54 16.10	32 31 09.4
	R. C_2	15.98	09.3
	Ad.	16.07	09.4
6493	Str.	. .	40 30 32.3
	R. C.	18 54 41.20	30.5
	Ja.	40.97	31.9
	Ad.	41.20	31.6
6495	R.	18 54 59.68	39 02 44.4
	R. C.	59.83	43.8
	Ja.	59.40	43.4
	Ad.	59.76	43.7
6496	M.	18 54 38.18	51 38 57.9
	Rob.	38.11	57.8
	Ay., 1860	38.18	59.0
	Ad.	38.16	58.1
6497	M.	18 55 17.96	31 58 17.4
	Rob.	17.96	16.4
	Ay., 1864	17.97	18.7
	Main	17.85	18.8
	Ad.	17.94	17.7
6500	T.	18 55 24.56	58 03 09.8
	R.	24.71	12.8
	R. C.	24.70	12.3
	Rob.	24.67	12.5
	Wn.	24.81	14.0
	Ad.	24.69	12.4
6516	R.	18 57 41.25	47 51 31.0*
	R. C.	41.25	29.4
	Ja.	40.98	29.1
	Ad.	41.25	29.2

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
6520	T.	18	57	54.11	46	45	32.7
	R.			53.84			[30.0*]
	H.			54.12			33.5
	R. C.			54.06			32.5
	Rob.			54.09			34.6
	Ad.			54.02			30.4
6522	M.	18	58	14.81	55	28	45.0
	Rob.			14.96			46.4
	Ad.			14.88			45.4
6530	Ay., 1845	18	59	10.45	52	04	49.6
	R. C.			10.46			50.2
	Ja.			10.22			47.9
	Ad.			10.46			49.1
6534	Ja.	19	00	11.68	31	33	32.8
	Wn.			12.14			32.2
	Sm.			. .			32.6*
	Ad.			12.14			32.4
6551	M.	19	02	06.47	53	12	17.2
	Rob.			06.54			19.2
	Wn.			06.74			19.4
	Ad.			06.58			18.5
6553	M.	19	02	41.87	32	18	22.7
	Rob.			41.91			23.4
	R. C_2			41.82			23.0
	Ay., 1864			41.94			21.3
	Wn.			41.92			20.3
	Ad.			41.89			22.0
6556	St.	19	02	50.50	35	54	18.2
	Main			50.51			20.1
	Wn.			50.57			19.3
	Ay., 1866–'69			50.47			19.0
	Ad.			50.51			19.0
6566	R.	19	05	21.56	50	09	45.6
	Ay., 1845			21.50			47.0
	R. C.			21.61			45.9
	Ja.			21.13			47.1
	Wn.			21.71			45.9
	Ad.			21.60			45.8
6567	M.	19	05	59.08§	31	[26	§07.3]
	Ja.			58.73		25	53.7
	R. C_2			58.83			55.6
	Main			59.42			. .
	Sm.			59.03			54.7*
	Ad.			58.83			54.6
6571	M.	19	06	58.40	31	04	34.8
	Rob.			58.41			34.6
	Ja.			58.08			33.4
	Ay., 1864			58.36			33.7
	Main			58.15			35.0
	Wn.			58.32			33.3
	Ad.			58.33			34.0
6579	Arg. 196	19	08	50.80	49	37	16.3
	Wn.			50.83			15.8
	Ad.			50.81			16.2
6581	M.	19	09	30.08	38	05	57.2
	Rob.			30.03			56.2
	Ay., 1860			30.18			55.2
	Main			30.19			54.8
	Ad.			30.12			55.7
6583	M.	19	09	18.56	56	38	47.6
	Rob.			[18.27]			48.4
	Ay., 1860			18.73			48.4
	Wn.			18.81			. .
	Leid.			. .			47.9
	Ay., 1869			18.71			47.76
	Ad.			18.69			47.9
6593	R.	19	11	[34.57*]	40	08	28.8*
	R. C.			34.00			32.7
	Ja.			33.39			30.6
	Ad.			34.00			30.9

§ Two observations only.

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
6599	St.	19	12	01.78	37	54	42.5
6601	M.	19	11	41.26	57	29	21.6
	Rob.			41.06			23.4
	Ad.			41.16			22.2
6603	R.	19	12	03.53*	49	51	01.5*
	R. C.			03.65			03.5
	Ja.			03.28			02.3
	Ad.			03.61			02.4
6623	St.	19	14	12.70	53	08	17.8
	Ay., 1864			12.76			18.4
	Ay., 1868–'69			12.73			18.0
	Leid.			. .			18.7
	Ad.			12.72			18.2
6624	R. C.	19	14	47.41	40	07	51.0
	Ja.			47.05			52.1
	Ay., 1864			47.35			51.3
	Ad.			47.38			51.3
6626	R.	19	15	17.32	49	20	16.8
	R. C.			17.68			18.2
	Ja.			17.34			16.0
	Ay., 1864			17.81			18.0
	Ay., 1868			17.79			18.3
	Ad.			17.76			17.2
6635	R.	19	16	50.55*	54	08	[43.0*]
	Ay., 1845			50.63			39.3
	R. C.			50.81			38.6
	Ja.			50.41			39.3
	Ad.			50.72			38.7
6640	R.	19	17	58.42	57	24	34.2
	H.			58.41			33.8
	R. C.			58.44			32.0
	Ja.			58.10			34.1
	Ad.			58.44			33.1
6651	M.	19	19	36.74			. .
	T.			. .	36	12	18.7
	Rob.			36.95			20.2
	H. C.			. .			20.9
	Ay., 1864			36.85			21.2
	Main			36.79			22.0
	Ad.			36.83			21.5
6656	R.	19	19	[59.13*]	43	08	43.6*
	H.			59.33			44.9
	R. C.			59.37			44.5
	Ay., 1860			59.49			44.3
	Ja.			59.03			44.5
	Ad.			59.40			44.3
6659	T.	19	20	07.17	50	01	38.8
	Ay., 1845			06.82			39.8
	R. C.			07.01			39.4
	Rob.			07.11			40.1
	Ou.			. .			38.7
	Ad.			07.03			39.1
6667	M.	19	21	38.91	36	04	05.5
	Rob.			39.02			06.8
	Ay., 1864			39.01			07.3
	Main			38.96			06.2
	Wn.			39.06			04.6
	Ad.			38.99			06.0
6681	T.	19	23	31.02	57	46	33.4
	R.			31.04			34.6
	R. C.			30.98			33.4
	Rob.			31.22			33.1
	Ad.			31.06			33.2

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
6687	M.	19 24 22.02	52 03 57.2
	Rob.	22.22	59.0
	Ay., 1860	22.23	57.9
	Ay., 1869	22.30	59.2
	Leid.	. .	59.5
	Ad.	22.38	57.9
6697	St.	19 26 33.20	51 27 50.3
	R. C_2	33.09	50.4
	Ay., 1869	33.21	50.6
	Leid.	. .	51.25
	Ad.	33.18	50.7
6698	M.	19 27 07.50	34 11 19.0
	Rob.	07.64	18.7
	Ay., 1864	07.59	17.3
	Main	07.50	19.6
	Wn.	07.60	16.9
	Ad.	07.57	18.2
6711	R.	19 29 15.09	38 29 25.9
	R. C.	15.10	26.4
	Ja.	14.93	25.6
	Ad.	15.10	25.8
6712	Arg.	19 29 03.49	58 19 58.8
	Wn.	03.51	57.6
	Ad.	03.49	58.5
6717	R.	19 30 14.96	48 59 28.3
	R. C.	15.04	27.5
	Ja.	14.79	27.4
	Ay., 1860	15.19	27.0
	Ad.	15.06	27.3
6718	R.	19 30 36.90	42 08 23.6
	H.	36.53	24.7
	R. C.	36.59	24.3
	Ja.	36.02	23.6
	Ad.	36.67	23.8
6720	R.	19 30 46.60*	43 40 18.2*
	R. C	46.71	18.7
	Ja.	46.25	17.8
	Ad.	46.67	18.0
6721	R. C.	19 31 06.52	47 53 36.0
	Ja.	[06.33]	35.2
	Wn. Mur.	. .	36.5
	Wn.	06.52	35.2
	Ad.	06.52	35.6
6722	M.	19 31 18.80	36 40 05.6
	Rob.	18.84	07.2
	Ay., 1864	18.80	07.1
	Main	18.84	04.8
	Ad.	18.82	06.0
6723	T.	19 31 05.54	50 58 16.4
	H.	05.31	16.0
	R. C.	05.40	15.9
	Rob.	05.42	15.2
	R. C_2	05.54	12.2
	Leid.	. .	09.8
	Ad.	05.46	09.2
6728	R.	19 32 33.44*	43 25 38.0
	R. C.	33.71*	38.0
	Ja.	33.56	38.0
	Ad.	33.62	37.7
6730	M.	19 32 34.84	49 57 32.8
	Rob.	35.10	32.4
	Q.	34.76*	33.0*
	Ay., 1860	35.00	33.6
	Ay., 1864	34.93	32.5
	Ad.	34.92	32.9
6731	H.	19 32 45.64	44 25 12.4
	R. C.	45.82	12.2
	Ja.	45.45	12.0
	Ad.	45.42	12.1
6734	St.	19 33 05.30	49 55 55.4
	Leid.	. .	56.9
	Engl.	05.26	56.2
	Ad.	05.29	56.2
6741	T.	19 34 28.38	48 59 [30.9]
	R.	28.16	38.4
	R. C.	28.34	40.0
	Rob.	28.42	42.5
	Ay., 1860	28.51	42.6
	Ad.	28.39	43.8
6745	M.	19 35 22.36	42 31 50.0
	Rob.	22.47	51.2
	Ay., 1860	22.29	49.2
	Ad.	22.37	50.0
6748	H.	19 35 52.19	54 40 48.8
	R. C.	52.29	47.1
	Ja.	51.98	48.9
	Ay., 1860	52.59	50.0
	Wn.	52.53	52.0
	Ad.	52.56	49.9
6754	R.	19 36 [58.41]	45 13 [37.2]
	H.	58.37	44.2
	R. C.	58.60	43.2
	Ja.	58.01	43.3
	Wn.	58.71	45.7
	Ad.	58.81	46.6
6763	M.	19 38 29.27	50 14 09.1
	Rob.	29.38	[13.9]
	Q.	29.32*	. .
	Ay., 1860	29.50	09.3
	R. C_2	29.43	07.9
	Bonn	29.49	. .
	Ad.	29.42	08.9
6764	M.	19 38 32.32	50 13 42.1
	Rob.	. .	[45.6]
	Ay., 1860	32.37	42.1
	R. C_2	32.30	40.0
	Bonn	32.31	42.14
	Ad.	32.32	41.6
6765	R.	19 38 46.81	38 22 25.9
	R. C.	46.77	30.6
	Ja.	46.37	28.9
	Ad.	46.79	28.3
6769	R. C.	19 39 34.64	41 28 26.7
	Ja.	34.09	26.3
	Ad.	34.64	26.5
6771	St.	19 39 46.10	37 03 11.9
6777	T.	19 41 11.76	34 42 32.9
	H.	11.69	33.3
	Rob.	11.70	35.2
	R. C_2	11.81	33.8
	Main	11.68	35.9
	Wn. Tran.	11.50*	. .
	Wn.	11.79	32.5
	Ad.	11.73	33.9
6779	St.	19 41 04.03	44 49 35.1
	Ay., 1864	04.06	35.8
	Wn.	04.01	36.8
	Ay., 1868, 1869.	04.05	35.7
	Leid.	. .	35.3
	Ad.	04.04	35.5
6780	R.	19 40 47.85*	57 43 10.9*
	R. C.	47.82	10.5
	Ja.	47.51	09.4
	Ay., 1860	48.16	08.7
	Ad.	48.44	09.4

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
6784	M.	19 41 40.86	33 26 17.8
	Rob.	40.82	19.7
	Ay., 1860	40.83	16.7
	R. C_2	40.81	16.1
	Ay., 1864	40.88	16.5
	Main	. .	15.3*
	Ay., 1869	40.94	16.8
	Ad.	40.86	17.1
6799	H.	19 43 47.52	47 35 58.6
	R. C.	47.70	57.4
	Rob.	47.87	59.2
	Ja.	47.50	58.2
	Ad.	47.70	58.1
6800	T.	19 44 04.25	33 07 32.1
	Rob.	04.29	33.3
	R. C_2	04.54	32.7
	Ad.	04.36	32.7
6806	M.	19 45 02.08	38 23 46.3
	Rob.	01.90	46.1
	R. C_2	02.16	47.4
	Ay., 1864	02.10	46.6
	Ad.	02.06	46.5
6813	M.	19 46 08.14	38 24 07.7
	Rob.	08.29	06.7
	Ja.	. .	06.6
	R. C_2	08.29	08.0
	Ay., 1864	08.24	05.9
	Ad.	08.24	06.8
6817	Ay., 1845	19 46 19.91	40 16 58.6
	H.	19.81	58.5
	R. C.	19.79	57.7
	Ja.	19.35	58.2
	Ay., 1860	20.05	57.2
	Ad.	19.89	58.0
6818	R. C.	19 46 01.64	59 06 15.5
	Ja.	01.54	26.0
	Pulc.	. .	16.9
	Wn.	01.74	17.4
	Ad.	01.69	16.5
6824	M.	19 47 29.37	52 40 16.4
	Rob.	29.23	17.2
	Ay., 1860	29.51	17.2
	Wn.	29.60	16.4
	Ad.	29.43	16.8
6830	H.	19 48 26.14	47 36 36.5
	R. C.	26.21	34.9
	Ja.	25.63	36.5
	Ad.	26.18	35.8
6847	M.	19 50 43.37	57 11 45.0
	Rob.	43.62	46.2
	Ay., 1864	43.47	46.4
	Ad.	43.49	45.7
6849	M.	19 51 23.68	38 09 20.0
	Rob.	23.81	20.2
	Ay., 1864	23.70	19.8
	Ad.	23.73	19.8
6851	M.	19 51 36.92	34 45 09.9
	Rob.	36.93	09.1
	Ay., 1860	37.09	07.8
	R. C_2	36.78	. .
	Ad.	36.93	08.6
6852	H.	19 51 20.92	59 22 42.2
	R. C.	20.91	41.3
	Rob.	20.61	42.1
	Ja.	20.45	42.2
	Pulc.	. .	42.6
	Sm.	21.11	41.2
	Ad.	20.86	42.0

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
6856	St.	19 52 23.84	52 06 28.3
	R. C_2	. .	28.4
	Ay., 1869	23.85	28.3
	Ad.	23.84	28.3
6857	H.	19 52 53.27	40 01 58.9
	R. C.	53.20	58.6
	Rob.	53.21	58.8
	Ja.	52.90	57.1
	Ay., 1860	53.39	59.1
	Wn.	. .	57.6
	Ad.	53.27	58.2
6860	T.	19 53 00.43	38 07 20.8
	R. C.	00.20	23.5
	Rob.	00.33	[18.9*]
	Ad.	00.31	22.4
6863	R. C.	19 52 53.13	57 55 15.8
	Rob.	53.22	15.3
	Ja.	52.93	14.6
	Ad.	53.18	14.9
6865	Ay., 1845	19 53 19.84	50 34 01.9
	H.	19.95	03.1*
	R. C.	19.90	01.6
	Rob.	19.93	01.9
	Ja.	19.47	01.5
	Ad.	19.90	01.5
6867	T.	19 53 32.12	58 30 44.4
	Ay., 1845	32.24	46.6
	H.	32.30	45.6
	R. C.	32.12	45.5
	Rob.	32.22	46.9
	Ad.	32.20	45.6
6875	M.	19 55 20.07	36 42 04.0
	Rob.	20.22	06.7
	R. C_2	20.06	05.8
	Ay., 1864	20.17	03.9
	Wn.	20.16	03.4
	Ay., 1868	20.11	04.2
	Ad.	20.13	04.6
6876	H.	19 55 24.72	45 25 56.1
	R. C.	24.84	55.7
	Rob.	24.89	56.2
	Ja.	24.50	55.1
	Ad.	24.82	55.6
6881	T.	19 55 56.42	51 42 50.0
	H.	56.36	50.7
	R. C.	56.53	49.3
	Rob.	56.82	50.0
	Ad.	56.74	49.8
6895	M.	19 57 49.25	49 45 25.9
	Rob.	49.45	27.9
	Ay., 1860	49.36	26.7
	Leid.	. .	27.4
	Ad.	49.35	27.0
6915	M.	20 01 43.12	35 37 45.3
	Rob.	43.22	46.8
	Q.	43.12	45.5
	R. C_2	43.09	45.1
	Ay., 1864	43.17	43.7
	Ad.	43.14	45.2
6918	R.	20 01 43.21	51 28 52.4
	H.	43.31	53.5
	R. C.	43.33	52.8
	Ja.	42.98	53.0
	Ad.	43.28	52.6
6924	R.	20 02 30.99	55 58 45.9
	R. C.	30.79	45.9
	Ay., 1845	31.09	46.8
	Ad.	30.96	45.9

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
6928	H.	20	02	55.50	52	47	41.9
	R. C.			55.59			40.3
	Ja.			55.36			42.1
	Wn.			56.21			46.5
	Ay., 1869			56.16			46.9
	Ad.			56.38			48.2
6937	M.	20	04	47.11	36	28	23.6
	Rob.			47.01			23.6
	Ay., 1860			47.19			21.7
	R. C_2			47.47			21.3
	Ad.			47.20			22.4
6959	H.	20	09	02.92	51	05	18.8
	R. C_2			03.07			17.7
	Rob.			03.18			29.0
	Ja.			02.91			17.8
	Ay., 1860			03.09			16.5
	Ad.			03.06			17.8
6962	M.	20	09	22.20	46	26	16.7
	Rob.			22.47			19.4
	Ay., 1864			22.32*			17.6
	Ay., 1868			22.21*			19.0*
	Ad.			22.32			18.0
6963	R. C.	20	09	30.32	43	00	02.6
	Ja.			29.91			02.2
	Ay., 1860			30.42			01.6
	Ad.			30.37			02.0
6965	St.	20	09	41.72	46	21	46.2
	Ay., 1869			41.68			46.8
	Leid.			. .			47.1
	Ad.			41.71			46.8
6967	M.	20	09	51.06	36	25	28.5
	Rob.			51.25			29.4
	Q.			51.07			30.0
	R. C_2			51.17			28.2
	Ay., 1864			51.14			28.0
	Ad.			51.14			28.7
6969	M.	20	09	59.17	36	22	21.8
	Rob.			59.27			24.7
	Ay., 1864			59.21			20.3
	Ad.			59.22			21.3
6976	St.	20	10	29.52	56	11	08.3
	Wn.			29.37			08.3*
	Ad.			29.50			08.3
6983	M.	20	11	36.25	47	19	50.7
	Rob.			36.49			55.9
	Ay., 1860			36.50			50.9
	Ay., 1869			36.46			52.0
	Leid.			. .			52.2
	Ad.			36.42			52.1
6985	R. C.	20	12	05.11	49	50	53.7
	Ja.			04.94			54.6
	Ad.			05.11			54.0
6986	M.	20	12	28.77	39	58	44.5
	Rob.			28.73			46.1
	Ja.			28.23			44.1
	R. C_2			28.44			44.2
	Ay., 1864			28.58			44.4
	Ad.			28.62			44.7
6990	M.	20	13	10.73	37	38	43.0
	Rob.			10.83			44.2
	R. C_2			10.70			41.5
	Ay., 1864			10.81			42.0
	Main			. .			43.3
	Wn.			10.76			. .
	Ad.			10.77			42.8
6996	M.	20	13	41.33	40	20	36.4
	Rob.			41.44			35.9
	Ja.			40.94			36.6
	Ay., 1864			41.44			35.3
	Ad.			41.40			35.9
6997	M.	20	13	47.69	36	36	32.5
	Rob.			47.72			33.6
	Ay., 1864			47.69			34.2
	Main			47.52			34.2
	Ad.			47.66			33.5
6998	M.	20	13	50.97	34	35	35.4
	Rob.			51.26			36.2
	Ay., 1864			51.05			34.4
	Main			. .			36.1
	Ad.			51.09			35.4
7001	R. C.	20	14	24.52	38	36	49.0
	Ja.			24.37			50.1
	Ad.			24.52			49.3
7006	M.	20	15	07.88	36	44	24.0
	Rob.			07.83			24.8
	R. C_2			07.60			24.0
	Ay., 1864			07.70			23.8
	Wn.			07.61			. .
	Sm.			07.79			22.8
	Ad.			07.72			23.6
7007	M.	20	14	57.08	49	06	22.4
	Rob.			56.86			. .
	Ay., 1864			56.78			23.6
	Ad.			56.91			23.0
7008	R. C.	20	15	43.43	39	00	35.4
	Rob.			43.29			38.4
	Ja.			43.15			36.3
	Ay., 1860			. .			34.4*
	Ay., 1864			43.43			35.7*
	Ay., 1868, 1869			. .			36.1
	Ad.			43.38			36.0
7022	St.	20	17	44.55	39	51	27.1
	R. C_2			44.43			28.2
	Leid.			. .			27.0
	Ay., 1869			44.53			27.4
	Ad.			44.52			27.3
7027	Il.	20	18	19.08	40	37	40.4
	R. C.			19.06			39.5
	Rob.			19.19			40.1
	Ja.			18.65			39.7
	Ay., 1860			19.16			37.6
	Ad.			19.12			39.5
7029	M.	20	18	52.10	31	47	16.3
	Rob.			52.14			. .
	Ay., 1860			52.13			15.4
	Ad.			52.12			15.8
7035	R. C.	20	19	47.36	54	16	13.4
	Ja.			47.12			13.3
	Ad.			47.36			13.1
7041	R. C.	20	21	04.60	42	11	48.6
	Ay., 1850			04.68			47.1
	Ja.			04.52			46.6
	Ad.			04.64			47.5
7048	R. C.	20	21	33.85	39	59	35.1
	Ja.			(33.53)			33.9
	Ad.			33.85			34.3
7055	R. C.	20	22	18.10	54	16	31.2
	Ja.			17.80			32.0
	Ad.			18.10			31.4
7060	R. C.	20	22	29.47	59	11	31.0
	Ja.			29.01			31.2
	Pulc.			. .			30.4
	Ad.			29.47			30.6
7061	M.	20	22	56.37	38	01	51.4
	Rob.			56.45			52.7
	Ay., 1864			56.34			50.0
	Main			56.58			50.8
	Wn.			56.38			50.1
	Ad.			56.42			50.9

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7062	M.	20	23	13.05	48	58	08.8
	Rob.			13.04			10.4
	Ay., 1860			13.14			09.5
	Ay., 1864			13.08			10.2
	Wn.			12.96			09.4*
	Ad.			13.07			09.6
7064	H.	20	23	22.02	56	13	37.4
	R. C.			22.07			37.2
	Ja.			21.85			36.6
	Wn.			21.31			38.1
	Ad.			22.13			37.2
7073	M.	20	24	34.20	36	02	18.7
	Rob.			34.37			19.7
	Ay., 1864			34.37			18.5
	Main			34.24			19.6
	Wn.			34.34			17.7
	Ad.			34.31			18.7
7076	M.	20	24	39.01	48	30	. .
	R. C.			.. .			15.1
	Rob.			39.35			15.4
	Ay., 1864			39.22			13.9
	Ad.			39.19			14.6
7083	Arg.	20	25	51.58	45	30	17.7
	Ad.			51.58			17.7
7084	M.	20	26	14.42	36	30	56.6
	Rob.			14.53			56.9
	Main			14.43			57.0
	Wn.			14.46			55.9
	Ad.			14.46			56.6
7085	M.	20	26	11.41	48	31	55.6
	Rob.			11.54			58.0
	Wn.			11.22			56.3
	Ay., 1868, 1869			11.28			56.1
	Ad.			11.36			56.4
7086	H.	20	26	19.52	55	38	57.4
	R. C.			19.60			56.8
	Rob.			19.85			57.7
	Ja.			19.19			56.4
	Sm.			19.85			56.3
	Ad.			19.66			56.9
7091	M.	20	27	27.24	48	47	56.4
	Rob.			27.33			58.0
	Ay., 1860			27.41			55.9
	Ad.			27.33			56.6
7100	R. C.	20	28	31.24	42	45	59.4
	Ja.			30.87			58.0
	Ad.			31.24			58.5
7101	R. C.	20	28	32.94	41	02	49.2
	Ja.			32.74			48.9
	Ad.			32.94			48.8
7103	M.	20	29	02.40	34	49	24.8
	Rob.			02.38			25.9
	Ay., 1864			02.47			24.6
	Main			02.42			26.7
	Ad.			02.42			25.3
7105	T.	20	28	43.32	56	21	21.6
	H.			43.12			21.5
	R. C.			43.10			20.8
	Rob.			43.29			21.5
	Ad.			43.21			21.2
7112	H.	20	29	48.93	46	15	57.1
	R. C.			49.07			55.9
	Ja.			48.76			56.1
	Ad.			49.00			56.2
7114	R. C.	20	30	05.60	40	40	05.3
	Ja.			05.33			05.9
	Wn.			. .			06.5*
	Ad.			05.60			05.6
7119	R. C.	21	30	50.52	41	27	30.7
	Ja.			(50.06)			30.6
	Ad.			50.52			31.6
7120	T.	20	31	11.93	51	25	24.7
	R. C.			11.90			25.6
	Ad.			11.91			25.0
7131	M.	20	32	26.69	31	08	11.6
	Rob.			26.78			12.6
	Ay., 1864			26.83			13.1
	Main			. .			13.5
	Wn.			. .			12.5
	Ad.			26.77			12.5
7132	M.	20	32	28.00	31	05	15.8
	Rob.			28.07			15.5
	Ay., 1864			28.13			14.9
	Main			. .			14.7
	Wn.			. .			15.9
	Ad.			28.07			15.2
7153	R. C.	20	33	39.60	52	32	13.1
	Ja.			39.48			14.3
	Ad.			39.60			13.5
7158	H.	20	34	58.76	40	08	19.7
	R. C.			58.84			18.4
	Ja.			58.57			19.2
	Ad.			58.80			19.0
7161	M.	20	35	10.09	45	13	. .
	Ja.			09.83			33.2
	Rob.			10.07			33.8
	R. C.			. .			33.1
	Ay., 1864			10.36			32.6
	Sm.			. .			32.0
	Ad.			10.15			32.7
7164	M.	20	35	59.05	31	51	49.2
	Rob.			59.04			49.0
	Ay., 1864			59.02			48.7
	Main			58.92			49.0
	Ay., 1868			59.11			50.0
	Ad.			59.03			49.1
7166	R. C.	20	35	46.18	55	33	53.8
	Ja.			45.71			54.2
	Ad.			46.18			53.8
7167	R. C.	20	36	19.58	38	38	17.2
	Rob.			19.84			17.4
	Ja.			19.47			16.0
	Ad.			19.71			16.6
7174	H.	20	37	25.55			. .
	R. C.			25.41	41	16	13.0
	Ja.			25.18			12.2
	Ad.			25.48			12.4
7182	M.	20	38	21.52	49	53	29.5
	Rob.			21.48			31.5
	R. C.			21.22			28.6
	Ay., 1864			21.44			30.6
	Ay., 1868, 1869			21.41			30.3
	Ad.			21.42			30.3
7189	T.	20	39	10.46	56	56	09.8
	R. C.			10.40			09.5
	Rob.			10.61			12.6
	Ad.			10.49			10.4
7194	M.	20	40	30.15	30	15	52.8
	Rob.			30.20			52.6
	R. C.			29.82			52.0
	Ay., 1864			30.14			51.3
	Main			30.14			51.9
	Ad.			30.09			52.0
7198	H.	20	40	28.42	46	50	39.3
	R. C.			28.52			37.5
	Ja.			28.08			38.9
	Ad.			28.47			38.4

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7204	St.	20	41	09.24	33	30	10.8
C	R. C_2.			09.20			11.1
	Ay., 1864			09.38*			10.4
	Ay., 1868, 1869			09.25			11.6
	Leid.			. .			10.4
	Ad.			09.24			10.8
7213	St.	20	42	32.36	36	01	55.7
B	Ay., 1868,1869			32.43			56.0
	Eng.			32.39			56.3
	Leid.			. .			56.6
	Ad.			32.39			55.8
7215	T.	20	42	15.25	57	08	02.8
	R. C.			15.10			01.0
	Rob.			15.16			01.3
	Ay., 1845			15.24			02.7
	Ay., 1860			14.94		07	58.0
	Ad.			15.14			55.1
7218	R. C.	20	42	44.03	52	32	30.2
	Ja.			43.40			29.4
	Wn.			43.72			27.8
	Ad.			43.70			26.1
7219	R. C.	20	43	03.48	45	07	17.7
	Ja.			03.15			17.6
	Ad.			03.48			17.5
7233	M.	20	44	40.80	45	39	02.7
	Rob.			40.78			03.7
	Wn.			40.84			04.6
	Ad.			40.81			03.5
7241	M.	20	45	38.51	43	35	20.6
	Rob.			38.69			21.8
	Q.			38.59			20.8
	R. C_2.			38.42			20.5
	Ay., 1864			38.53			20.6
	Ad.			38.55			20.8
7243	R. C.	20	45	40.14	50	19	08.2
	Ja.			39.93			08.8
	Wn.			40.20			07.9
	Ad.			40.17			08.1
7253	M.	20	48	49.36	43	54	53.1
	Rob.			49.62			54.1
	Ja.			49.25			52.7
	Ay., 1860			49.61			52.6
	Ay., 1864			49.59			52.9
	Wn.			49.49			53.1
	Ad.			49.53			53.1
7254	R.	20	48	56.47	44	42	32.0
	H.			56.43			32.7
	R. C.			56.57			32.6
	Rob.			56.61			34.1
	Ja.			(55.91)			33.5
	Ad.			56.52			32.7
7259	M.	20	49	27.99	43	54	44.4
	Rob.			28.00			45.9
	Ja.			27.50			45.2
	Ay., 1864			28.06			44.6
	Wn.			. .			45.3
	Ad.			28.02			45.0
7260	R.	20	49	42.03	40	13	38.9
	R. C.			42.12			42.1
	Ja.			41.96			41.4
	Wn.			42.24			40.1
	Ad.			42.16			40.9
7262	T.	20	49	44.06	54	02	13.3
	R. C.			43.97			12.5
	Ay., 1864			44.00			15.6
	Wn.			44.01			16.2
	Ay., 1868			44.01			17.5
	Ad.			44.01			18.2
7268	R. C.	20	51	36.59	46	56	21.8
	Rob.			36.53			21.8
	Wag.			36.40			. .
	Ja.			36.18			22.1
	Ay., 1860			36.62			21.6
	R. C_2			36.43			20.7
	Ay., 1864			36.64			20.3
	Wn.			36.67			21.5
	Sm.			36.67			20.7
	Ad.			36.55			21.3
7273	R. C.	20	52	10.20	44	26	40.5
	Ja.			09.90			42.5
	Wn.			10.29			40.6
	Ad.			10.25			41.1
7274	R. C.	20	52	20.51	48	42	55.0
	Rob.			20.56			58.6
	Ja.			20.02			55.7
	Ad.			20.54			56.1
7277	American Nautical Almanac	star.					
7278	R. C.	20	52	27.40	50	14	57.1
	Ja.			27.11			56.6
	Ou.			. .			57.8
	Ad.			27.70§			57.0
7281	M.	20	52	56.59	56	24	23.2
	Rob.			56.58			25.4
	Q.			56.49			23.1
	Ay., 1860			56.48			24.4
	Ad.			56.54			23.9
7290	M.	20	53	50.84	43	59	[09.6]
	R. C.			50.93			06.7
	Rob.			51.25			06.2
	Ja.			50.61			06.7
	R. C_2			50.97			06.3
	Ay., 1864			51.09			07.2
	Wn.			50.93			08.1
	Sm.			51.07			05.8
	Ad.			51.00			06.6
7294	T.	20	54	29.60	49	58	36.0
	R.			(30.00)			39.0
	H.			29.75			36.6
	R. C.			29.69			37.2
	Wn.			29.73			38.4
	Leid.			. .			37.8
	Ay., 1868, 1869			29.70			37.7
	Ad.			29.70			37.6
7297	R. C.	20	55	08.07	39	45	48.4
	Ja.			07.98			47.5
	Main			. .			52.2
	Wn.			08.93			49.6
	Ad.			09.09			51.9
7301	M.	20	55	34.09	47	02	00.3
	R. C.			34.34			. .
	Rob.			34.31			01.7
	Ay., 1864			34.43			01.2
	Wn.			34.46			. .
	Ay., 1868,1869.			34.50			01.7
	Ad.			34.46			01.2
7306	M.	20	56	48.88	45	39	58.4
	Rob.			48.99			56.0
	Ay., 1864			49.00			56.9
	Wn.			49.20			55.7
	Ad.			49.02			55.9
7310	Rob.	20	56	20.52	58	57	04.8
	R. C.			20.33			02.6
	Pulc.			. .			02.4
	Ad.			20.42			03.0
7313	T.	20	57	33.46	39	01	00.6
	R. C.			33.23			01.7
	Rob.			33.46			00.4
	Ad.			33.38			00.9

§ P.M. in Right Ascension probable and allowed for.

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7317	R.C.	20	57	56.18	44	17	54.5
	Ja.			56.01			55.2
	Ad.			56.18			54.7
7320	M.	20	58	13.75	38	09	52.9
	Rob.			13.86			52.9
	Q.			13.76			52.1
	R.C.$_2$			13.80			51.3
	Ay., 1864			13.95			50.9
	Ad.			13.82			51.9
7326	T.	20	59	11.32	41	08	06.8
	R.C.			11.21			06.1
	Rob.			11.40			07.1
	Ad.			11.31			06.7
7332	R.C.	20	59	58.30	52	47	17.3
	Ja.			58.10			19.1
	Wn.			58.48			. .
	Ad.			58.39			18.0
7333	St.	21	00	23.06	43	25	47.1
	Ay., 1864			23.04			47.8
	Ay., 1868, 1869			23.09			48.2
	Ad.			23.06			47.5
7336	American Nautical Almanac	star.					
?7337	M.			. .	38	08	00.5
	Ay., 1864	21	01	19.26		07	59.9
	Ay., 1868, 1869			19.29		08	00.5
	Ad.			19.27		08	00.4
7345	M.	21	02	17.54	47	08	47.5
	Rob.			17.59			48.9
	Ay., 1860			17.75			48.2
	Wn.			. .			48.6
	Ad.			17.63			48.2
7365	T.	21	06	23.73	53	03	11.4
	H.			23.69			11.9
	R.C.			23.66			11.9
	Rob.			23.56			13.4
	Wn.			23.68			11.4
	Leid.			. .			12.2
	Ay., 1868, 1869			23.69			12.6
	Ad.			23.67			12.0
7373	T.	21	08	(25.51)	36	07	06.0
	R.			24.83*			04.2*
	Rob.			25.10			06.0
	Main			25.10			05.2
	Wn.			24.84*			. .
	Ad.			25.01			05.6
?7377	St.	21	08	37.22	59	28	22.2
7383	T.	21	09	31.01	40	37	42.6
	R.C.			31.00			43.5
	R.C.$_2$			31.11			43.6
	Wn.			31.16			43.4
	Ad.			31.07			43.3
7385	St.	21	09	48.10	37	30	44.5
	R.C.$_2$			48.19			45.9
	Wn.			48.32			. .
	Ad.			48.17			45.0
7387	T.	21	09	36.41	59	34	56.4
	R.C.			36.26			57.0
	Rob.			36.33			58.1
	R.C.$_2$			36.21			56.4
	Ay., 1864			36.25			57.0
	Ad.			36.29			56.8
7398	M.	21	12	30.40	38	52	19.1
	Rob.			30.27			19.1
	Ay., 1860			30.45			17.8
	Ad.			30.37			18.5
7399	M.	21	12	46.84	34	22	23.4
	Rob.			46.79			22.9
	Q.			46.73			24.6
	R.C.$_2$			46.59			22.6
	Ad.			46.74			23.2
7401	T.	21	13	29.96	55	16	22.8
	H.			29.99			24.0
	R.C.			29.93			25.9
	Rob.			30.13			25.0
	Ay., 1864			29.99			24.6
	Ad.			30.00			24.4
7402	M.	21	13	47.36	43	25	14.3
	Rob.			47.27			15.0
	Ja.			47.19			13.6
	Ay., 1864			47.52			13.9
	Ad.			47.38			14.0
7411	H.	21	15	10.48	48	58	56.3
	R.C.			10.62			56.1
	Ja.			10.37			56.7
	Ay., 1860			10.70			55.2
	Ad.			10.60			56.0
7417	H.	21	15	48.08	58	05	43.8
	R.C.			48.07			43.1
	Rob.			48.06			42.1
	Ja.			47.55			43.1
	Ay., 1868			48.10			43.1
	Wn.			48.17			. .
	Sm.			48.17			42.1
	Ad.			48.09			42.7
7431	H.	21	17	39.63	48	51	12.3
	R.C.			39.71			13.1
	Ja.			39.29			12.6
	Ay., 1860			39.93			12.5
	Wn.			. .			13.3
	Ad.			39.82			14.2
7448	R.C.	21	19	46.79	51	07	13.4
	Ja.			46.42			12.9
	Ad.			46.79			13.0
7453	M.	21	20	40.43	36	07	41.8
	Rob.			40.57			41.3
	Ay., 1864			40.61			40.8
	Ad.			40.54			41.1
7455	M.	21	20	43.88	46	10	24.4
	Rob.			44.14			24.8
	Ay., 1864			44.26			25.0
	Ad.			44.26			24.6
7462	T.	21	22	15.64	36	34	26.8
	R.			15.64			26.6
	H.			15.59			27.3
	Rob.			15.55			27.6
	Wn.			15.39			. .
	Ad.			15.56			27.1
7465	T.	21	22	47.47	31	40	46.6
	H.			47.45			40.9
	Rob.			. .			43.1
	Main			47.67			41.6*
	Ad.			47.57			41.8
7468	T.	21	22	37.79	52	21	20.4
	R.C.			37.51			22.4
	Rob.			37.59			23.5
	R.C.$_2$			37.64			22.7
	Ad.			37.63			22.0
7469	T.	21	22	55.03	45	52	21.2
	H.			55.22			22.8
	R.C.			55.06			23.3
	Ay., 1845			55.23			24.0
	Rob.			55.58			. .
	Ay., 1850			55.24			. .
	Ad.			55.38			22.8

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7476	T.	21	23	58.58	59	12	24.2
	R. C.			58.07			25.0
	Rob.			. .			25.1
	Pulc.			. .			23.2
	Ad.			58.24			24.0
7477	R. C.	21	24	30.75	43	47	31.3
	Ja.			(30.33)			29.7
	Ad.			30.75			30.3
7480	M.	21	24	50.13	45	59	24.6
	Rob.			50.19			24.8
	Ay., 1860			50.11			24.0
	R. C.$_2$			50.11			23.7
	Ay., 1864			50.23			24.6
	Ad.			50.14			23.9
7483	H.	21	26	10.49	52	24	30.7
	R. C.			10.58			30.4
	Rob.			10.64			29.9
	Ja.			10.25			31.1
	Ad.			10.57			30.4
7488	R. C.	21	27	03.94	51	38	33.3
	Ja.			03.51			33.9
	Ou.			. .			33.8
	Ay., 1864			03.98			33.7
	Wn.			04.10			33.8
	Ad.			04.01			34.8
7489	R. C.	21	27	15.36	52	04	08.2
	Ja.			15.09			07.9
	Ou.			. .			07.8
	Ad.			15.36			07.8
7494	T.	21	27	24.60	58	51	57.1
	H.			25.26			55.1
	R. C.			25.19			55.4
	Rob.			25.53*			57.2
	R. C.$_2$			25.55			54.4
	Pulc.			. .			56.9
	Ad.			25.70			56.9
7495	H.	21	27	33.11	59	54	31.6
	R. C.			33.23			31.1
	Ja.			33.00			30.0
	Ay., 1860			33.39			30.6
	Ad.			33.24			30.7
7496	H.	21	27	46.55	47	53	32.7
	R. C.			46.55			33.0
	Ja.			46.27			32.1
	Leid.			. .			32.0
	Ay., 1868, 1869			46.57			32.2
	Sm.			46.72			31.0
	Ad.			46.57			32.2
7501	M.	21	28	(36.68)	45	18	(03.8)
	R. C.			36.92			00.2
	Rob.			37.06			01.2
	Ja.			36.62			01.3
	Ay., 1864			36.99			00.5
	Wn.			36.92		17	59.9
	Sm.			36.97			58.9
	Ad.			36.97		18	00.2
7503	M.	21	29	16.69	45	02	23.1
	Rob.			16.63			35.3
	Ay., 1860			16.85			22.7
	Ad.			16.72			23.5
7505	M.	21	29	40.33	37	58	28.2
	Rob.			41.24			29.5
	R. C.$_2$			40.29			28.6
	Ay., 1864			40.32			27.5
	Wn.			40.20			27.9
	Ay., 1868			40.11*			27.5
	Ad.			40.26			28.3
7512	R. C.	21	30	08.89	51	08	30.9
	Ja.			08.89			31.3
	Ou.			. .			31.5
	Ad.			08.89			31.1

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7521	M.	21	31	56.29	39	51	10.5
	Rob.			56.20			11.3
	Ay., 1864			56.38			09.4
	Wn.			56.36*			10.5*
	Ad.			56.35			09.8
7524	T.	21	32	44.21	38	45	17.8
	R. C.			44.17			19.6
	Rob.			44.31			20.2
	Wn. Tran. and Mur.			44.15			20.5
	Wn. Tran. Cir.			44.32			19.1
	Ad.			44.23			19.4
7530	R. C.	21	33	29.12	53	28	46.4
	H. C.			29.02			45.8
	Ad.			29.07			46.0
7544	M.	21	35	16.71	42	42	25.7
	Rob.			16.92			23.3
	Ay., 1860			16.85			25.6
	Ay., 1864			16.80			24.1
	Wn.			16.74			24.8
	Ad.			16.80			24.6
7545	T.	21	35	04.83	56	55	25.5
	R.			04.97*			27.9*
	H.			04.77			26.6
	R. C.			04.81			27.6
	Rob.			05.39			28.0
	Ay., 1850			05.20			27.4
	R. C.$_2$			05.06*			25.3
	Main, 1868			06.08			27.5
	Ad.			05.02			26.7
7548	R. C.	21	35	40.47	49	06	58.7
	Ja.			40.28			58.3
	Ay., 1860			40.62			58.3
	Ad.			40.55			58.3
7554	M.	21	36	32.55	40	14	17.8
	Rob.			32.66			17.9
	Ay., 1864			32.71			17.0
	Ad.			32.64			17.4
7555	R.	21	36	34.81	54	18	16.1
	R. C.			34.88			14.1
	Ja.			34.46			15.6
	Ad.			34.85			15.1
7559	M.	21	37	21.09	40	30	25.4
	Rob.			21.24			26.1
	Ay., 1864			21.23			25.7
	Ad.			21.19			25.6
7560	M.	21	37	39.18	50	37	10.7
	Rob.			39.48			11.4
	Ay., 1860			39.37			11.0
	Wn.			39.55			. .
	Ay., 1868, 1869			39.36*			11.6
	Ad.			39.45			11.1
7565	M.	21	38	04.68	40	35	05.0
	R. C.			05.02			04.2
	Rob.			05.20			04.1
	Ay., 1864			05.12			02.8
	Ad.			05.11			03.5
7566	M.	21	38	15.41	37	42	44.2
	Rob.			15.38			44.3
	Wn.			15.38			43.0
	Sm.			15.63			43.5
	Ad.			15.39			43.6
7582	T.	21	39	40.71	58	12	26.8
	H.			41.06			25.4
	R. C.			40.89			26.3
	Rob.			40.90*			26.3
	R. C.$_2$			40.82			26.5
	Bonn			40.97			26.1
	Ad.			40.89			26.4
7589	R. C.	21	40	48.30	51	41	31.4
	Ja.			(48.08)			32.5
	Ou.			. .			32.7
	Ad.			48.30			32.0

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7593	R.	21	41	18.77*	42	28	59.1*
	Ja.			18.46		29	01.8
	R. C.			18.59			01.8
	Ad.			18.65			01.0
7598	M.	21	42	10.56	48	43	53.8
	Rob.			10.62			55.2
	Ay., 1860			10.60			53.0
	Ad.			10.58			53.7
7602	H.	21	43	08.10	38	22	35.5
	R. C.			08.05			35.5
	Rob.			08.11			37.3
	Ja.			07.99			35.3
	Ad.			08.09			35.7
7605	M.	21	43	44.09	60	06	46.6
	Rob.			44.04			46.2
	Ad.			44.07			46.2
7612	R. C.	21	45	36.50	52	06	51.0
	Ja.			36.27			50.3
	Ou.			. .			50.0
	Ad.			36.50			50.2
7614	R. C.	21	45	54.65	38	57	06.9
	Ja.			54.49			07.2
	Wn.			54.84			06.6
	Ad.			54.75			06.7
7631	M.	21	47	47.61	55	12	34.7
	Rob.			47.74			36.0
	Ja.			47.11			33.6
	Q.			47.45			. .
	Ad.			47.60			31.5
7636	M.	21	48	54.10	55	37	23.0
	Rob.			54.34			25.4
	R. C_2			54.33			24.1
	Ad.			54.26			24.0
7637	M.	21	48	56.87	53	24	22.5
	R. C.			. .			. .
	Rob.			57.08			32.0
	Q.			57.06			31.4
	Ay., 1864			57.08			31.1
	Ad.			57.02			31.6
7642	M.	21	50	33.22	53	20	25.5
	Rob.			33.25			28.5
	Q.			. .			28.0*
	R. C_2			33.06			26.6
	Ay., 1864			33.24			27.4
	Ad.			33.19			27.0
7643	R.	21	50	41.14	56	01	12.4
	Ay., 1840			41.17			12.3
	H.			40.99			10.3
	R. C.			41.08			09.4
	Rob.			41.16			11.7
	Ay., 1860			41.15			11.8
	Wn.			41.13			13.3
	Ad.			41.12			11.5
7646	R. C.	21	51	06.92	52	39	01.5
	Ja.			06.90			03.4
	Ad.			06.92			02.2
7668	M.	21	55	12.03	57	03	36.4
	Rob.			12.15			38.6
	R. C_2			11.91			37.2
	Ay., 1864			11.99			37.8
	Ad.			12.02			37.4
7676	T.	21	57	(16.36)	52	16	47.4
	H.			15.55			48.9
	R. C.			15.78			48.0
	Ay., 1845			15.86			48.0
	R. C_2			15.76			48.0
	Main			15.75			49.2
	Ad.			15.74			48.1
7679	R. C.	21	57	36.39	42	12	42.3
	Ja.			36.20			41.3
	Ad.			36.39			41.6
7681	H.	21	57	54.11	44	02	53.0
	R. C.			54.08			52.8
	Ja.			53.94			53.7
	Ad.			54.10			53.0
7683	M.	21	57	52.34	57	23	50.7
	Rob.			. .			52.3
	Ay., 1864			52.57			52.5
	Ad.			52.46			51.7
7695	R. C.	21	59	59.16	46	37	35.2
	Ja.			59.34			37.3
	Ad.			59.16			36.0
7696	M.	21	59	49.62	59	12	32.5
	Rob.			. .			33.2
	R. C_2			49.60			31.3
	Pulc.			. .			32.6
	Ay., 1864			49.62			32.7
	Ad.			49.61			32.4
7698	T.	22	00	08.06*	59	15	37.8
	H.			08.06			40.6*
	R. C.			08.29			39.1
	Rob.			. .			41.1
	R. C_2			. .			39.3
	Pulc.			. .			39.2
	Ad.			08.15			39.3
7705	T.	22	00	(57.35)	44	24	25.7
	H.			58.22			25.9
	R. C.			58.32			25.7
	R. C.			58.32			25.0
	Ad.			58.29			25.6
7718	T.	22	02	57.21	58	13	52.6
	R.			57.04*			53.5
	R. C.			56.96			52.9
	Ay., 1845			57.10			52.4
	Rob.			57.17			53.2
	Ad.			57.10			52.5
7721	St.	22	03	41.37	32	33	45.4
	Wn.			41.36			. .
	Ad.			41.36			45.4
7727	R.	22	03	44.40	47	19	19.8
	Ay., 1845			44.34			22.0
	Ja.			44.12			22.0
	Ad.			44.37			21.0
7731	St.	22	04	26.22	32	33	55.7
	Wn.			26.10			53.6
	Ad.			26.18			55.0
7736	T.	22	04	21.94	58	40	52.7
	H.			21.77			52.0
	R. C.			21.55			52.3
	R. C_2			22.16			52.3
	Ay., 1864			21.86			53.1
	Ad.			21.86			52.4
7737	T.	22	04	34.90	42	34	25.7
	R. C.			34.79			24.4
	Ay., 1860			34.97			23.0
	Ad.			34.89			24.5
7738	T.	22	04	(44.65)	58	14	22.6
	R. C.			44.92			20.7
	Rob.			45.02			23.4*
	R. C_2			45.06			20.0
	Ay., 1864			45.10			21.1
	Ay., 1868			45.12			20.2
	Ad.			45.04			21.0
7743	R. C.	22	05	51.97	42	24	59.7
	Rob.			. .		25	00.3
	Ja.			51.73		24	58.9
	Ad.			51.97			59.3

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
7746	Az.	22 06 18.06	50 12 23.5
	H.	17.95	22.2
	R. C.	18.03	21.9
	Ja.	(17.70)	22.1
	Ou.	. .	22.6
	Ay., 1860	18.41	22.0
	Ad.	18.60	27.2
7749	St.	22 06 31.09	57 35 07.5
	Ay., 1869	31.14	08.2
	Leid.	. .	08.0
	Wn.	31.06	06.9
	Ad.	31.10	07.6
7753	T.	22 07 16.16	33 59 21.3
	R.	16.01*	23.6*
	H.	15.83	21.1
	Rob.	15.94	22.9
	R. C_2	16.09	21.5
	Wn.	16.03	. .
	Ad.	16.02	21.9
7754	M.	22 07 17.87	56 13 05.7
	Rob.	18.02	08.2
	Ja.	17.68	06.6
	Ay., 1860	18.25	06.6
	R. C_2	17.84*	05.0
	Ad.	18.11	06.3
7755	M.	22 07 16.24	58 47 51.4
	Rob.	16.41	54.0
	R. C_2	16.22	51.5
	Ay., 1864	16.23	53.3
	Ad.	16.28	52.4
7765	R. C.	22 08 30.71	39 05 42.6
	Rob.	30.80	43.3
	Ay., 1860	30.83	43.0
	Ad.	30.78	42.7
7770	R. C.	22 09 29.21	42 20 05.0
	Ja.	28.84	04.8
	Ad.	29.21	04.7
7777	M.	22 10 31.46	37 07 37.3
	Rob.	31.34	36.8
	Ay., 1860	31.34	36.4
	Ad.	31.38	36.7
7778	M.	22 10 26.10	56 25 17.1
	Rob.	26.18	15.2
	Ay., 1860	26.13	14.2
	R. C_2	26.13	13.3
	Ay., 1864	26.09	14.8
	Ay., 1868, 1869	26.10	14.5
	Leid.	. .	14.7
	Ad.	26.12	14.5
7782	T.	22 11 55.84	56 35 47.7
	H.	55.50	47.7
	R. C.	55.70	49.9
	Rob.	55.83	50.2
	R. C_2	55.78	48.6
	Ad.	55.73	48.7
7787	R. C.	22 13 48.28	52 01 49.5
	Ja.	47.83	48.9
	Ou.	. .	49.3
	Ad.	48.28	49.1
7799	T.	22 15 31.22	56 17 23.4
	R.	30.78	25.7
	R. C.	30.92	22.8
	Ad.	30.97	23.5
7800	M.	22 15 51.70	45 54 27.7
	Rob.	51.81	28.8
	Ay., 1860	51.80	26.3
	Ad.	51.77	27.4
7803	R. C.	22 16 41.62	43 06 58.3
	Ja.	41.32	57.6
	Ay., 1860	41.65*	57.6*
	Ay., 1864	41.70	57.2
	Ad.	41.66	57.6
7812	R. C.	22 18 23.48	56 39 09.3
	Ja.	23.40	10.3
	Ay., 1864	23.60	09.5
	Ad.	23.54	09.6
7813	T.	22 18 25.64	55 19 52.8
	R.	25.28	54.5
	H.	25.21	52.2
	R. C.	25.43	52.6
	Rob.	25.44	53.4
	Wn.	25.50	52.3
	Ad.	25.42	52.7
7815	St.	22 18 38.80	51 36 11.5
	Leid.	. .	11.9
	Eng.	38.74	11.9
	Main	38.68	12.1
	Ad.	38.76	11.8
7820	M.	22 19 26.82	48 50 34.01
	Rob.	26.87	35.6
	Ay., 1860	27.01	34.0
	Ad.	26.90	34.4
7824	T.	22 20 03.11	50 37 14.4
	R. C.	03.16	14.7
	Ad.	03.14	14.5
7825	T.	22 20 22.07	49 46 02.3
	H.	21.93	01.2
	R. C.	22.04	01.2
	Rob.	22.03	02.3
	Ad.	22.02	01.6
7843	M.	22 24 18.79	31 56 00.1
	R. C_2	18.90	00.2
	Ay., 1864	18.75	00.4
	Wn.	18.84	55 59.4
	Ad.	18.83	56 00.4
7845	M.	22 24 19.23	47 04 02.6
	Rob.	19.47	03.5
	Ay., 1860	19.30	02.2
	R. C_2	19.29	02.3
	Ad.	19.32	02.5
7846	R. C.	22 24 28.72	53 36 22.3
	Ja.	28.52	23.7
	Ad.	28.72	22.8
7847	M.	22 24 30.95	57 45 51.0
	R. C_2	31.08	51.9
	Ay., 1864	30.91	52.5
	Ad.	30.98	51.8
7848	St.	22 24 31.94	57 46 32.1
	R. C_2	31.86	31.9
	Ay., 1864	31.92	32.7
	Ad.	31.92	32.3
7850	M.	22 25 05.52	42 28 59.5
	Rob.	05.52	59.0
	Ay., 1860	05.64	. .
	Ay., 1864	05.61	59.3
	Ad.	05.57	59.1
7855	St.	22 26 08.52	49 38 24.2
	Rob.	08.68	24.8
	R. C_2	08.57	24.0
	Wn.	08.74	25.2
	Wn. Tran. and Mur.	08.83	25.4
	Ay., 1868, 1869	08.62	25.5
	Ad.	08.64	24.8

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7858	H.	22	26	54.92	39	08	14.8
	R. C.			54.85			14.2
	Ja.			(54.61)			15.4
	Bonn			54.83*			16.3*
	Ay., 1860			. .			14.6
	Ay., 1864			54.99			14.3
	Ad.			54.92			14.6
7871	T.	22	28	49.34	55	58	40.0
	H.			49.45			42.4
	R. C.			49.50			41.6
	Rob.			49.60			42.1
	Wn.			49.86			43.4
	Ad.			49.67			41.8
7879	M.	22	30	17.75	38	58	50.9
	Rob.			18.70			51.2
	R. C_2			18.42			51.6
	Ay., 1864			18.63			52.1
	Ad.			18.55			51.3
7880	M.	22	30	18.59	38	59	17.7
	Rob.			18.75			17.8
	R. C_2			18.74			17.1
	Ay., 1864			18.75			16.1
	Main			18.68*			17.0*
	Wn.			18.75			16.5
	Ad.			18.71			16.9
7882	R. C.	22	30	41.93	49	25	25.9
	Ja.			41.45			26.1
	Ad.			41.93			25.8
7888	M.	22	32	14.46	50	54	00.0
	Rob.			14.42			01.0
	Wn. T. C.			14.52			01.1
	Wn. Tran.			14.66			. .
	Ad.			14.52			00.5
7894	T.	22	32	52.90	44	32	01.5
	R. C.			53.03			02.6
	Rob.			52.97			01.6
	Wn.			53.14			01.3
	Ad.			53.01			01.7
7901	St.	22	33	39.29	38	23	59.9
	Wn. Tran.			39.16			. .
	Ad.			39.25			59.9
7906	M.	22	35	01.83	43	37	26.4
	Rob.			01.95			27.0
	Ay., 1860			02.13			27.1
	R. C_2			02.05			27.7
	Ay., 1864			02.12			26.7
	Ay., 1868, 1869			02.05			27.0
	Ad.			02.02			27.1
7913	Ay., 1840	22	35	42.61	44	21	19.8
	R. C.			42.59			20.6
	Rob.			42.73			22.0
	Wn.			42.76			21.3
	Ad.			42.68			20.7
7915	M.	22	35	52.96	39	34	22.6
	Rob.			53.06			25.0
	Wn.			53.04			21.7
	Wn. Tran.			52.98			. .
	Ad.			53.01			22.9
?7917	R. C.	22	36	00.62	40	53	38.2
	Rob.			00.81			38.2
	Ja.			00.31			38.3
	Ad.			00.72			37.9
7931	R. C.	22	38	26.70	38	48	39.8
	Rob.			26.87			39.0
	Ja.			26.53			40.5
	Ad.			26.78			39.5
7932	St.	22	38	31.15	41	09	49.4

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
7948	R. C.	22	40	37.20	43	53	14.8
	Ay., 1845			37.28			14.6
	Rob.			37.48			14.6
	Ja.			37.01			13.0
	Ad.			37.74			15.8
7950	T.	22	40	53.19	45	33	29.9
	R. C.			53.04			30.3
	Rob.			53.21			31.2
	R. C_2			53.06			30.7
	Wn.			53.04*			26.7
	Ad.			53.11			29.9
7953	R. C.	22	42	25.49	57	49	25.9
	Rob.			25.55			25.6
	Ja.			25.16			25.1
	Wn.			. .			25.9
	Ad.			25.52			25.4
7961	R. C.	22	44	36.75	55	14	23.4
	Rob.			36.83			23.3
	Ja.			36.42			23.2
	Ay., 1860			36.84			23.8
	Ad.			36.81			23.3
7962	M.	22	44	43.57	41	17	30.9
	Rob.			43.70			31.6
	Ad.			43.64			31.0
7972	M.	22	46	23.90	42	38	54.4
	Rob.			23.95			54.6
	Ay., 1860			23.93			54.2
	R. C_2			23.84			55.3
	Ay., 1864			23.93			53.6
	Ad.			23.91			54.3
7978	R. C.	22	47	28.76	39	30	13.8
	Ja.			28.54			13.7
	Ad.			28.76			13.6
7983	H.	22	48	04.68	44	05	06.1
	R. C.			04.65			06.5
	Rob.			04.62*			05.6
	Ja.			04.41			06.7
	Ad.			04.66			06.0
7984	H.	22	48	22.88			. .
	R. C.			22.91	39	42	39.1
	Rob.			. .			39.0
	Ja.			22.70			37.7
	Ad.			22.90			38.4
7994	M.	22	50	41.22	40	56	14.2
	Rob.			. .			14.6
	Ay., 1864			41.41			12.8
	Wn.			41.36			13.8
	Wn. Tran.			41.19*			. .
	Ad.			41.31			13.7
7995	H.	22	50	57.35	49	04	00.0
	R. C.			57.28		03	58.9
	Rob.			57.46*			59.9
	Ja.			57.21			59.5
	Ay., 1860			57.49			59.3
	Ad.			57.39			59.3
7999	R. C.	22	51	33.12	48	00	59.5
	Ay., 1845			33.30		01	00.9
	Rob.			33.30*			00.1
	Ja.			33.11		00	59.1
	Bonn			33.36*			59.7
	Leid.			. .			59.9
	Ay., 1868, 1869			33.26		01	00.0
	Ad.			33.26		00	59.7
8013	R. C.	22	54	01.98	59	08	42.9
	Rob.			. .			43.7
	Ja.			01.89			44.1
	Ad.			01.98			43.3

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
8023	St.	22	56	10.36	41	39	15.6
	Ay., 1869			10.34			16.4
	Leid.			. .			16.1
	Wn. Tran. and Mur.			10.26*			[19.92]
	Ad.			10.34			15.9
8024	M.	22	56	13.89	56	26	03.0
	Rob.			. .			03.6
	Q.			13.82			01.8*
	Sm.			14.05			02.2
	Ad.			13.86			02.6
8028	M.	22	56	51.20	42	05	08.1
	Rob.			51.14			08.4
	Ay., 1864			51.23			08.3
	Ad.			51.19			08.1
8033	R. C.	22	58	13.66	59	46	22.0
	Rob.			. .			22.7
	Pulc.			. .			21.1
	Ad.			13.66			21.6
8036	M.	22	58	34.28	49	22	22.0
	Rob.			34.43			23.0
	Q.			34.52			23.1
	Ay., 1864			34.57			22.2
	Wn.			34.43			22.4
	Ad.			34.44			22.3
8054	M.	23	01	20.19	58	44	38.2
	Rob.			20.32			40.6
	Ad.			20.26			39.2
8056	M.	23	01	35.19			. .
	R. C.			. .	45	23	33.0
	Rob.			35.16			34.0
	Ja.			34.94			32.5
	Ay., 1864			35.07			31.3
	Ad.			35.14			31.4
8058	M.	23	01	56.54	45	42	43.4
	Rob.			56.54			44.1
	Ad.			56.54			43.5
8059	M.	23	02	04.80	48	36	53.6
	Rob.			04.77			54.9
	Q.			04.79			. .
	R. C_2			04.84			53.7
	Ay., 1864			04.89			54.6
	Ad.			04.82			54.1
8075	M.	23	04	23.81	58	39	16.2
	Rob.			23.93			18.0
	R. C_2			23.61			17.3
	Ad.			23.78			17.0
8076	M.	23	04	40.64	42	52	23.4
	Rob.			40.97			23.4
	R. C_2			40.72			24.2
	Ay., 1864			40.85			22.4
	Ad.			40.80			23.2
8082	M.	23	06	49.50	48	43	24.1
	Rob.			49.56			26.4
	Ay., 1860			49.74			24.5
	Wn.			49.67			25.4*
	Ad.			49.61			24.9
8083	St.	23	07	16.18	56	28	41.3
	Sm.			16.54			41.9
	Ad.			16.30			41.5
8107	M.	23	11	00.47	52	32	20.8
	Rob.			00.57			20.9
	Q.			00.87			22.7
	R. C_2			00.63			22.2
	Ay., 1869			00.65			23.0
	Ad.			00.64			21.8
8110	H.	23	11	23.76			. .
	R. C.			23.80	44	29	04.6
	Rob.			(24.36)			04.2
	Ja.			23.67			05.5
	Ad.			23.78			04.5
8114	M.	23	11	57.09	48	19	56.6
	Rob.			57.05			58.1
	Ay., 1860			57.19			55.8
	Ad.			57.11			56.7
8115	R. C.	23	12	04.12	44	48	23.7
	Rob.			04.19			26.7
	Ja.			03.81			25.0
	Ad.			04.14			24.6
8125	M.	23	13	40.41	47	56	23.8
	Rob.			40.57			22.3
	Ay., 1864			40.64			24.2
	Ay., 1868, 1869			40.60			23.8
	Ad.			40.56			23.4
8126	M.	23	13	49.52	47	41	45.6
	Rob.			49.96			47.0
	Ay., 1864			49.61			46.6
	Ay., 1869			49.63			46.7
	Ad.			49.64			46.4
8128	M.	23	13	55.55	41	23	39.6
	Rob.			55.68			39.7
	Ay., 1864			55.57			38.0
	Ad.			55.60			38.8
8135	R. C.	23	14	49.34	43	25	59.5
	Rob.			. .		26	02.3*
	Ja.			49.06		25	59.2
	Sm.			49.46		26	00.0
	Ad.			49.34		26	00.0
8136	M.	23	14	51.34	37	30	00.7
	Rob.			51.47			00.5
	R. C_2			51.43			00.4
	Ay., 1864			51.46			00.7
	Wn.			51.28*			00.4
	Ad.			. .			. .
8139	M.	23	15	16.92	37	53	51.7
	Rob.			. .			55.3
	Ja.			16.79			54.5
	Wn.			16.93			. .
	Sm.			17.21			52.6
	Ad.			16.92			53.4
8141	M.	23	15	48.86	31	07	39.9
	Rob.			48.87			41.0
	Ay., 1864			48.90			39.6
	Main			. .			. .
	Wn.			48.90*			. .
	Ad.			48.88			40.3
8153	M.	23	16	58.42	59	26	53.4
	Rob.			58.32			53.5
	Ja.			57.70			53.9
	Pulc.			. .			55.0
	Ad.			58.37			54.0
8156	M.	23	17	39.32	31	50	35.4
	Rob.			39.19			37.2
	Q.			38.98			38.4
	R. C_2			39.12			38.5
	Ay., 1864			39.01			37.8
	Ad.			39.12			37.9
8158	M.	23	18	27.36	56	50	57.7
	Rob.			27.28			59.0
	Ja.			27.10			59.4
	Ad.			27.32			58.5

No.	Authority.	Right Ascension, 1875.0.			Declination, 1875.0.		
		h.	m.	s.	°	′	″
8159	M.	23	18	43.65	31	41	54.0
	Rob.			43.76			55.5
	Q.			43.79			54.9
	R. C.$_2$			43.86			54.6
	Ay., 1864			43.82			54.9
	Wn.			43.78			. .
	Ad.			43.78			54.7
8171	M.	23	21	06.15	42	13	27.1
	Rob.			06.15			. .
	Wn.			06.07*			27.1
	Ad.			06.12			26.9
8188	T.	23	24	15.81	57	51	36.4
	R.			15.81			36.2
	R. C.			15.71			35.5
	Ay., 1845			15.89			35.7
	Rob.			16.03			35.8
	Ay., 1860			16.02			35.2
	Ay., 1864			15.99			36.5
	Ad.			15.92			35.6
8195	M.	23	25	08.61	38	32	59.2
	Rob.			08.69			60.6
	Q.			08.75			. .
	R. C.$_2$			08.79			58.9
	Ay., 1864			08.75			57.9
	Wn.			08.77			. .
	Ad.			08.74			59.0
8206	St.	23	27	45.12	30	38	07.1
	Ay., 1864			45.23			07.7
	Main			45.25			07.2
	Ad.			45.18			07.3
8211	M.	23	28	27.61	32	48	22.1
	Rob.			27.71			22.8
	Ay., 1864			27.61			20.8
	Main			27.74			20.8
	Ad.			27.70			21.5
8212	M.	23	28	30.75	39	32	51.0
	Rob.			30.79			52.6
	Ad.			30.77			51.5
8223	R. C.	23	31	25.63	43	44	17.5
	Ay., 1868			25.71			16.2
	Ad.			25.67			16.8
8224	St.	23	31	27.11	45	46	50.6
	R. C.$_2$			26.91			49.9
	Ad.			27.04			50.4
8229	St.	23	32	00.54	42	34	34.5
	Ay., 1864			00.56			34.3
	Ay., 1868			00.52			34.7
	Ad.			00.54			34.5
8231	M.	23	33	05.01	49	46	46.5
	Rob.			05.14			47.8
	Ad.			05 07			46.9
8237	St.	23	34	15 23	43	38	31.5
8245	Ay., 1840	23	36	05.73	44	17	58.6
	R. C.			05.64			58.1
	Ja.			05.62			58.5
	Ad.			05.68			58.3
8252	M.	.	.	.	52	27	32.5
	Rob.	23	37	00.71			33.1
	Ay., 1868			00.66			33.7
	Sm.			00.77			32.6
	Ad.			00.68			32.9
8261	M.	.	.	.	45	43	34.7
	R. C.	23	39	50.51			. .
	Rob.			50.64			35.8
	Ay., 1860			50.71			34.9
	Ad.			50.62			35.0
8268	M.	23	40	57.06	57	57	20.6
	Rob.			57.39			22.2
	Ay., 1860			57.10			20.7
	Ay., 1864			57.22			21.0
	Wn.			57.21			21.2
	Ad.			57.20			21.0
8280	M.	23	42	(47.86)	59	17	01.9
	R. C.			46.43			. .
	Rob.			46.68			02.2
	Pulc.			. .			01.2
	Sm.			46.94		16	59.7
	Ad.			46.68		17	01.1
8282	M.	23	43	03.96	58	16	06.0
	Rob.			04.25			06.2
	Ja.			03.58			07.8
	Ay., 1864			03.85			07.4
	Ay., 1868			03.86			07.3
	Ad.			03.98			06.8
8289	T.	23	44	07.57	50	55	38.1
	R.			07.54			41.4
	R. C.			07.60			39.7
	Rob.			07.88			39.9
	R. C.$_2$			07.91			39.3
	Ad.			07.90			39.3
8307	T.	23	47	17.92	50	44	35.5
	R. C.			17.98			38.7
	Rob.			. .			38.0
	Ad.			17.95			37.2
8310	St.	23	48	08.72	56	48	13.7
8316	T.	23	49	14.62	52	02	19.0
	R.			14.35			19.8
	H.			14.52			19.3
	R. C.			14.44			20.4
	Rob.			14.64			21.7
	Ad.			14.52			19.7
8317	M.	23	49	18.44	56	42	59.1
	Rob.			18.46			59.3
	Ay., 1864			18.18			58.5
	Ad.			18.36			58.8
8322	M.	23	50	50.72	55	00	37.0
	Rob.			50.86			37.6
	Ad.			50.79			37.0
8326	T.	23	51	48.01	49	44	25.6
	H.			47.74			28.7
	R. C.			47.81			28.4
	Ay., 1845			47.78			27.8
	Rob.			47.83			31.8
	Ad.			47.79			35.5
8330	M.	23	52	40.52	55	03	32.4
	Rob.			40.60			33.9
	Main			. .			34.4*
	Wn.			40.32			34.0
	Ad.			40.50			33.3
8245	H.	23	55	20.49	41	40	17.2
	R. C.			20.55			15.7
	Ja.			20.31			16.4
	Ad.			20.55			15.9
8364	M.	23	58	28.71	57	50	08.0
	Rob.			28.75			09.7
	Wn.			28.84			. .
	Ay., 1868			28.72			10.1
	Sm.			28.92			09.0
	Ad.			28.79			09.1
8372	M.	23	59	43.99	57	44	22.8
	Rob.			43.93			23.4
	Wn.			44.03			23.3
	Ay., 1868			43.95			. .
	Sm.			44.22			21.6
	Ad.			44.02			22.6

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
7	St.	0 02 31.05	58 27 36.0
	R. C.$_2$	31.15	36.1
	Wn.	. .	34.3
	Ad.	31.08	35.6
13	R. C.	0 03 33.77	45 41 43.1
	Rob.	. .	43.2
	Ja.	33.34	45.1
	Ad.	33.77	43.7
16	St.	0 03 49.82	45 22 35.3
18	M.	0 04 01.30*	58 58 43.1*
	Rob.	01.42	37.6
	Main	. .	41.1*
	Sm.	01.62	38.4
	Ad.	01.52	39.1
28	Arg.	0 07 01.66	40 20 43.8
	Ay.	01.57	42.1
	Sm.	01.75	42.3
	Ad.	01.66	43.2
51	R.	0 10 33.49	47 15 10.0
	R. C.	33.65	08.7
	Rob.	33.79	09.5
	Ja.	33.18	10.6
	Ad.	33.64	09.3
52	M.	0 10 33.85	37 59 15.3
	Rob.	33.87	16.4
	R. C.$_2$	33.91	15.9
	Wn.	33.84*	. .
	Ad.	33.87	15.7
54	Ay., 1840	0 11 05.83	50 44 19.4
	R. C.	05.87	19.3
	Rob.	06.05	18.8
	Ja.	05.49	18.8
	Ad.	05.92	18.8
58	M.	0 11 47.93	36 05 32.2
	Rob.	47.10	33.0
	Ay., 1864	48.10	30.5
	Main	47.96	32.4
	Wn.	48.08	31.7
	Wn. Tran.	48.05	. .
	Ad.	48.04	31.9
60	M.	0 12 06.97	43 05 49.2
	Rob.	07.16	49.6
	Ay., 1860	07.17	48.7
	Wn.	07.08	47.7
	Ad.	07.10	48.7
67	M.	0 14 32.50	37 16 33.8
	Rob.	32.41	33.6
	Ay., 1864	32.48	33.3
	Ay., 1868, 1869	32.52	34.4
	Main	32.47	33.1
	Wn. Tran.	32.37	. .
	Ad.	32.46	33.5
78	R. C.	0 17 26.60	43 31 18.4
	Ay., 1845	26.63	18.1
	Rob.	26.73	17.7
	Ja.	26.31	18.7
	Ad.	26.64	18.0
79	R. C.	0 17 31.90	51 19 37.6
	Rob.	. .	37.7
	Ja.	31.62	38.9
	Ay., 1864	32.06	37.2
	Ad.	31.98	37.3
83	M.	0 18 21.00	52 21 12.8
	Rob.	21.03	14.6
	Ja.	20.80	14.9
	Sm.	21.37	14.1
	Ad.	21.09	14.0
92	M.	0 19 [45.90]	55 56 55.5
	R. C.	49.57	. .
	Rob.	49.83	57.1
	Ay., 1868	49.68	55.6
	Ad.	49.69	55.9
100	T.	0 21 30.50	43 42 10.6
	R. C.	30.69	11.7
	Rob.	30.87	11.1
	Ad.	30.69	11.0
120	H.	0 21 47.31	32 53 30.6
	Rob.	47.44	29.6*
	Ja.	47.11	28.2
	H. C.	47.57	29.7
	Ay., 1864	47.53	29.4
	Main	47.51	29.6
	Sm.	. .	28.3
	Ad.	47.47	29.2
121	M.	0 24 52.95	53 49 59.9
	Rob.	52.98	50 05.6
	Ay., 1860	53.13	49 53.9
	Main	53.38*	55.4*
	Ad.	53.07	55.0
123	Ay., 1840	0 25 19.55	53 07 29.4
	R. C.	19.12	28.2
	Rob.	19.21*	29.8*
	Ja.	18.96	28.7
	Ad.	19.31	28.6
146	M.	0 29 11.24	53 28 46.4
	Rob.	11.32	44.5
	Ay., 1860	11.46	45.6
	Ad.	11.34	45.3
148	R. C.	0 29 21.65	59 38 14.8
	Rob.	22.02*	14.4
	Ja.	21.53	15.0
	Pulc.	. .	14.6
	Ad.	21.77	14.5
152	R.	0 29 59.55*	43 47 55.4*
	R. C.	59.17	55.3
	Rob.	59.35*	55.0
	Ay., 1860	59.19	55.5
	Ad.	59.27	55.0
153	St.	0 30 00.76	53 12 30.2
	Wn.	(01.07)	31.9
	Ay., 1868, 1869	00.91	31.4
	Leid.	. .	31.2
	Ad.	00.81	31.1
155	St.	0 30 12.40	33 01 51.6
158	Rob.	0 30 39.60	31 42 42.4
	Ay., 1864	39.78	41.3
	Main	39.81	41.6
	Wn.	39.85	40.6
	Ad.	39.76	41.4
165	R. C.	0 32 15.72	48 40 01.1
	Rob.	15.68	02.0
	Ja.	15.31	01.5
	Ay., 1864	16.01*	00.5*
	Ay., 1868	15.79	02.2
	Ad.	15.77	01.5
166	St.	0 32 38.80	30 10 35.3
	R. C.$_2$	38.90	35.0
	Wn. Mur.	38.74	. .
	Ad.	38.82	35.2
169	American Nautical Almanac	star.	
173	M.	0 34 20.89	38 46 20.5
	Rob.	21.03	21.0
	R. C.$_2$	20.86	20.8
	Ay., 1864	20.88	20.2
	Wn.	20.95	. .
	Ad.	20.92	20.5

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
180	M.	0 35 05.68	49 49 35.3
	Rob.	05.96	38.1
	Bonn.	05.96	36.1
	Ay., 1864	05.93	36.6
	Wn.	06.01	36.2
	Ay., 1868, 1869	06.01	36.2
	Ad.	05.92	36.3
181	M.	0 35 13.52	40 00 16.9
	Rob.	13.36	17.4
	Ja.	13.43	17.8
	Ay., 1864	13.60	16.3
	Ad.	13.49	16.9
182	M.	0 35 20.18	58 04 02.5
	Rob.	20.40	04.9
	Main	. .	04.7
	Ad.	20.29	03.9
189	M.	0 36 33.49	46 20 25.6
	Rob.	33.43	26.4
	Ay., 1860	33.46	26.2
	Ay., 1868, 1869	33.47	24.9
	Ad.	33.47	25.8
197	M.	0 37 [31.01]	47 10 [45.0]
	Rob.	30.20	44.3
	R. C.	30.19	41.9
	Ja.	29.90	43.4
	Ay., 1864	30.03	43.9
	Sm.	30.18	42.4
	Ad.	30.12	43.0
198	St.	0 37 45.92	47 35 59.2
	Ay., 1868, 1869	45.94	59.2
	Leid.	. .	60.0
	Ad.	45.93	59.5
201	R. C.	0 38 10.45	54 32 12.6
	Rob.	10.44	13.6
	Ad.	10.44	12.8
218	St.	0 41 32.75	57 09 07.4
	R. C_2	32.94	07.3
	Ay., 1864	32.82	08.2
	Eng.	32.90	07.8
	Arg.	32.80	08.3
	Sm.	(33.05)	06.8
	Ad.	32.83	07.6
219	M.	0 41 45.28	50 17 08.9
	Rob.	45.40	08.7
	Ay., 1860	45.40	09.8
	Ad.	45.36	09.0
227	M.	0 42 55.41	40 23 53.4
	Rob.	55.52	53.1
	Wn. Mur.	55.49*	52.1*
	Ad.	55.47	52.8
226	R. C.	0 42 37.46	47 04 58.1
	Ja.	37.25	58.7
	Ad.	37.46	58.2
232	R. C.	0 43 48.46	50 49 38.2
	Rob.	48.41	36.8
	R. C_2	48.39	37.0*
	Ad.	48.90	37.1
235	R. C.	0 44 26.40	50 53 28.4
	Rob.	26.43	27.9
	Ad.	26.42	27.8
244	M.	0 47 35.52	58 17 41.3
	Rob.	35.61	42.0
	Wn.	38.61*	. .
	Ad.	35.57	41.4
245	R. C.	0 47 59.52	48 00 01.1
	Ay., 1850	59.54	03.0
	Ja.	59.19	01.3
	Ay., 1860	59.49*	02.0*
	Ay., 1864	59.56	00.2
	Bonn.	59.53	01.8
	Ay., 1868, 1869.	59.46	00.8
	Leid.	. .	01.9
	Ad.	59.52	01.4
254	T.	0 49 14.42	58 30 22.5
	R. C.	14.19	19.8
	Rob.	14.28	19.4
	Ad.	14.30	20.4
255	R. C.	0 49 15.83	59 41 07.9
	Ja.	15.40	08.5
	Pulc.	. .	07.3
	Ad.	15.83	07.6
259	St.	0 49 49.03	37 49 14.9
	R. C_2	49.10	15.3
	Ay., 1864	49.12	15.0
	Ay., 1868, 1869	49.14	15.0
	Eng.	49.14	16.0
	Arg.	49.16	15.9
	Main	49.03	15.7
	Wn. Tran.	49.08	. .
	Sm.	[49.28]	14.9
	Ad.	49.10	15.3
283	M.	0 55 52.92	40 40 23.0
	Rob.	53.03	23.8
	Wn.	53.10	21.1
	Ad.	53.02	22.5
285	M.	0 55 58.38	31 07 58.0
	Rob.	58.43	57.6
	Main	58.48	58.0
	Ad.	58.43	57.7
290	M.	0 56 54.81	53 32 08.3§
	Rob.	54.42	06.4
	R. C_2	54.38	06.1
	Ay., 1864	54.60	05.1
	Sm.	54.83	04.6
	Ad.	54.55	04.3
297	R.	0 57 34.48	39 19 [07.9]
	Ay., 1840	34.59	16.5
	R. C.	34.62	13.9
	Ja.	34.38	14.5
	Ad.	34.57	15.0
310	M.	0 59 18.96	31 30 44.2
	Rob.	19.00	42.9
	Ay., 1864	18.89	43.9
	Main	18.87	44.0
	Ad.	18.94	43.6
314	M.	0 59 58.27	54 18 [34.6]
	Ay., 1840	. .	22.2
	Ay., 1845	. .	21.4
	R.	57.63	21.9*
	R. C.	. .	21.5
	Rob.	57.63	20.8
	Ay., 1860	58.05	21.4
	R. C_2	57.99	21.6
	Ad.	57.98	21.2
318	M.	1 00 50.60	43 16 30.4
	Rob.	50.60	30.9
	Ay., 1860	50.66	31.6
	R. C_2	50.63	32.0
	Ad.	50.60	31.1
321	M.	1 01 06.66	31 20 40.6
	Rob.	06.51	41.0
	R. C_2	06.50	38.8
	Ay., 1864	06.39	40.0
	Ad.	06.51	40.0

§ Reduced from Bessel, 1815; proper motion of −0″.07 yearly is indicated.

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
330	M.	1 02 14.95	46 34 28.9
	Rob.	15.03	28.4
	Ay., 1860	15.15	28.8
	Ad.	15.04	28.5
334	St.	1 02 44.30	34 57 26.4
	R. C.$_2$	44.33	27.2
	Ay., 1864	44.28	26.6
	Ay., 1868, 1869	44.26	26.9
	Eng.	44.22	26.1
	Wn. Tran. and Mur.	44.36	26.5
	Arg.	44.29	26.6
	Sm.	44.28	. .
	Ad.	44.29	26.6
337	M.	1 03 13.15	41 24 57.0
	Rob.	13.18	57.9
	Ay., 1864	13.25	58.0
	Ad.	13.19	57.5
339	M.	1 03 [28.90]	54 29 01.7
	R. C.	30.01	. .
	Ay., 1860	30.13	02.8
	R. C.$_2$	30.10	02.8
	Wn.	. .	03.3
	Ad.	30.08	02.6
343	M.	1 04 09.20	37 03 31.3
	Rob.	09.24	31.9
	R. C.$_2$	09.03	31.0
	Ay., 1864	09.24	30.0
	Wn.	08.98	. .
	Ad.	09.15	30.9
345	M.	1 04 13.45	30 45 34.3
	Rob.	13.41	33.9
	Ay., 1864	13.44	34.3
	Main	. .	32.5
	Ad.	13.43	33.6
352	T.	1 05 20.42	44 40 17.8
	Ay., 1845	20.24	19.3
	R. C.	19.98	18.6
	R. C.$_2$	20.04	18.2
	Ay., 1864	20.16	17.9
	Ad.	20.17	18.3
357	H.	1 05 56.29	31 24 42.1
	Main	. .	43.0
	Sm.	. .	41.5
	Ad.	56.29	42.0
377	R. C.	1 09 18.65	42 16 48.5
	Ja.	18.18	46.7
	Ad.	18.65	47.4
390	T.	1 12 00.87	57 33 00.7
	Ay., 1845	00.98	32 59.5
	R. C.	01.00	59.9
	Rob.	01.02	33 00.7
	Ad.	00.97	32 59.9
391	M.	1 12 13.98	57 34 24.9
	Rob.	14.02	24.3
	Ad.	14.00	24.4
404	M.	1 14 59.09	44 52 21.4
	Rob.	59.11	22.4
	Ay., 1860	59.32	22.8
	Ay., 1864	59.19	22.7
	Wn.	59.17	23.6
	Ay., 1868	59.19	23.7*
	Ad.	59.18	22.7
409	M.	1 16 31.96	37 03 41.9
	Rob.	31.96	42.0
	R. C.$_2$	31.85	42.6
	Ay., 1864	31.86	42.1
	Ad.	31.91	42.0
416	St.	1 17 39.30	59 35 05.9
	R. C.$_2$	39.06	03.7
	Wn. Tran. and Mur.	39.22	06.0
	Pulc.	. .	04.7
	Ad.	39.22	04.8
425	T.	1 18 57.47	42 48 33.4
	R.	57.37*	35.2
	R. C.	57.80	32.2
	Ay., 1860	57.97	31.9
	Ad.	57.89	30.4
432	M.	1 20 11.06	44 05 37.7
	Rob.	11.08	38.4
	R. C.$_2$	10.98	36.6
	Ad.	11.04	37.4
441	M.	1 22 36.58	46 21 40.8
	Rob.	36.72	42.0
	Ay., 1864	36.73	41.6
	Ay., 1868	36.76	42.1
	Ad.	36.70	41.5
456	M.	1 25 46.55	58 35 20.6
	Rob.	46.73	21.9
	Ad.	46.64	21.0
465	T.	1 27 03.88	36 35 43.6
	Rob.	03.81	45.3
	Bonn.	03.94	43.9
	Ay., 1864	03.84	44.1
	Ad.	03.87	44.3
474	M.	1 28 49.28	48 04 39.4
	Rob.	49.30	05 01.3
	Ay., 1864	49.19	00.1
	Ay., 1868	49.27	00.2*
	Ad.	49.27	00.1
480	M.	1 29 27.96	40 46 45.9
	Rob.	27.94	47.8
	R. C.$_2$	27.87	46.8
	Ad.	27.92	46.7
482	R. C.	1 29 58.05	57 20 23.3
	Rob.	58.10*	22.8
	Ay., 1850	58.17	22.9
	Ja.	57.87	21.7
	Wn.	58.38*	. .
	Sm.	58.14	20.6
	Ad.	58.15	21.8
487	St.	1 30 19.62	47 59 38.1
	R. C.$_2$	19.53	38.0
	Wn. Tran. and Mur.	19.49	38.2
	Ay., 1868, 1869.	19.66	38.7
	Arg.	19.68	38.8
	Leid.	. .	38.6
	Ad.	19.61	38.5
492	M.	1 31 51.51	43 44 56.4
	Rob.	51.62	58.0
	Ay., 1864	51.58	57.7
	Ad.	51.57	57.2
501	R. C.	1 33 10.04	42 39 53.2
	Ja.	09.94	52.9
	Ad.	09.99	52.9
502	M.	1 33 12.51	39 56 33.5
	Rob.	12.53	34.2
	R. C.$_2$	12.41	34.6
	Ay., 1864	12.47	35.1
	Wn.	12.44	34.0
	Ay., 1868	12.39	35.8
	Ad.	12.46	34.4
508	M.	1 34 01.25	57 59 40.9
	Rob.	01.40	40.2
	R. C.$_2$	. .	[47.4]
	Ad.	01.32	40.3

No.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
509	T.	1 34 11.07	59 54 55.4
	Ay., 1840	10.83	56.8
	R. C.	10.98	56.0
	Rob.	11.38	57.5
	R. C.$_2$	10.92	55.9*
	Ad.	11.04	56.2
510	T.	1 34 08.26	41 59 . .
	R. C.	08.58	11.2
	Rob.	09.22	09.7
	R. C.$_2$	09.82*	09.4*
	Ay., 1868, 1869	10.38	08.2
	Leid.	. .	08.2
	Ad.	10.97	08.4
515	M.	1 34 53.13	59 55 10.4
	Rob.	53.43	10.5
	R. C.$_2$	52.87	10.7
	Ad.	53.14	10.4
516	B. A. C.	1 34 50.09	34 36 51.6
	Ja.	49.94	50.9
	Wn.	50.09	. .
	Ay., 1864	50.26	50.6
	Main	50.20	50.8
	Wn.	50.21	. .
	Sm.	50.26	49.7
	Ad.	50.19	50.7
522	St.	1 35 50.18	50 03 28.2
	R. C.$_2$	49.88	28.5
	Ay., 1868	50.00*	29.7*
	Leid.	. .	29.0
	Ad.	50.07	28.7
525	M.	1 36 03.21	56 54 [§21.9]
	Rob.	03.34	27.0
	Bonn	03.20	27.0
	Main	. .	27.8*
	Sm.	03.38	24.1
	Ad.	03.25	26.7
540	T.	1 40 08.00	45 36 22.6
	R.	07.95	22.7
	R. C.	08.09	23.4
	Rob.	07.92	23.3
	R. C.$_2$	08.04	23.1
	Ad.	08.00	22.7
544	T.	1 41 16.20	37 19 45.7
	R.	16.32	45.7
	Rob.	16.33	46.2
	R. C.$_2$	16.47	46.3
	Ay., 1864	16.45	46.4
	Wn.	16.40	. .
	Ad.	16.36	46.0
547	R. C.	1 41 30.41	47 16 24.0
	Rob.	30.33*	24.5
	Ja.	30.39	25.1
	Wn. Mur.	. .	24.2*
	Sm.	30.51	23.4
	Ad.	30.41	24.0
555	R. C.	1 42 57.30	51 19 00.7
	Rob.	57.49	03.0
	R. C.$_2$	57.38	18 59.3
	Ad.	57.39	19 00.7
558	M.	1 43 47.36	54 31 36.0
	Rob.	47.30	38.1
	Ad.	47.33	36.8
560	M.	1 44 12.73	50 10 23.8
	Rob.	13.03	26.6
	Ad.	12.88	25.0
562	M.	1 44 51.74	50 51 [24.7]
	Rob.	51.81	24.0
	R. C.	51.80	23.0
	Ja.	51.38	22.2
	Ay., 1864	51.86	23.0
	Wn.	51.77	. .
	Sm.	51.90	21.5
	Ad.	51.79	22.6
566	M.	1 45 47.73	40 06 42.5
	Rob.	47.79	43.1
	Ay., 1864	47.79	43.1
	Wn.	47.88	42.4
	Ad.	47.80	42.7
575	M.	1 48 59.03	40 05 21.6
	Rob.	47 22.76	20.7
	Ja.	22.51	19.8
	Ad.	22.90	20.5
576	T.	1 47 34.61	36 30 46.2
	R.	34.63	46.3
	Main	34.74*	. .
	Wn.	34.86	46.8
	Ad.	34.71	46.5
579	M.	1 48 31.11	36 39 49.4
	Rob.	27.35	50.5
	R. C.$_2$	. .	49.1
	Ay., 1864	31.02	49.8
	Main	. .	50.4*
	Wn.	30.88	. .
	Ad.	31.00	49.7
580	M.	1 48 44.07	36 38 15.3
	Rob.	43.95	16.0
	R. C.$_2$	43.96	15.9
	Ay., 1864	44.14	15.1
	Main	. .	16.2*
	Wn.	43.91	. .
	Ad.	44.01	15.5
587	T.	1 50 10.10	46 29 02.4
	R.	09.96	02.0
	R. C.	10.07	02.7
	Rob.	10.02	04.4
	Ad.	10.03	02.6
590	M.	1 50 37.55	48 35 30.2
	Rob.	37.53	31.5
	Ad.	37.54	30.6
614	M.	1 53 59.22	53 52 54.0
	Rob.	59.30	54.2
	Ad.	59.26	53.8
624	M.	1 55 40.26	32 40 51.8
	Rob.	40.10	51.1
	Ay., 1864	40.06	50.4
	Ad.	40.14	50.9
628	St.	1 56 13.88	41 43 43.4
	R. C.$_2$	13.80	43.2
	Ay., 1864	13.90	43.6
	Wn.	. .	42.8
	Ay., 1868, 1869	13.95	44.3
	Ad.	13.88	43.5
646	M.	1 59 57.57	57 49 38.7
	Rob.	57.88	39.0
	Ad.	57.72	38.6

§ Bradley has but one declination, which is unreliable.

DETAILS OF POSITIONS

OF

ADDITIONAL STARS.

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 1854	R. C.	12 03 08	39 19 49.6
	Rob.	. . .	49.6
	Ad.	. . .	49.3
Gr. 1867	R. C.	12 14 00	38 35 48.5
	Ay., 1850	. . .	47.1
	Ad.	. . .	47.9
Gr. 1894	H.	12 21 25	42 02 51.6
	R. C.	. . .	51.6
	Ad.	. . .	51.5
Gr. 1903	Arg.	12 24 53	53 45 41.6
	H.	. . .	41.6
	Ad.	. . .	41.6
Gr. 1907	R. C.	12 29 43	40 22 24.0
	Bonn	. . .	24.8*
	Ad.	. . .	24.1
Arg. 124	Arg.	12 38 34	52 27 01.2
Gr. 1925	H.	12 42 05	50 50 24.5
	R.	. . .	23.3*
	R. C.	. . .	24.4
	Ad.	. . .	24.0
Gr. 1938	R. C.	12 50 52	44 13 43.4
	Rob.	. . .	44.1
	Ad.	. . .	43.4
Gr. 1979	R.	13 15 31	38 30 45.9*
	R. C.	. . .	46.2
	Rob.	. . .	45.9
	Ad.	. . .	45.7
XIII 71	H.	13 16 36	41 33 27.1
	R. C.	. . .	27.3
	Rob.	. . .	28.3
	Ad.	. . .	27.3
Gr. 1991	H.	13 20 55	46 40 45.4
	R.	. . .	45.4
	R. C.	. . .	45.9
	Ad.	. . .	45.4
Gr. 1994	H.	13 22 55	41 22 49.4
	R.	. . .	48.1*
	R. C.	. . .	48.7
	Ad.	. . .	48.7
Gr. 2030	H.	13 35 47	57 50 23.6
	R.	. . .	24.2
	R. C.	. . .	22.5
	Ad.	. . .	23.0
Gr. 2032	H.	13 37 09	42 18 18.3
	R.	. . .	18.3
	R. C.	. . .	16.9
	Ad.	. . .	17.6
XIII 189	H.	13 39 04	52 41 36.7
	R.	. . .	[40.3]*
	R. C.	. . .	36.9
	Rob.	. . .	36.5
	Ad.	. . .	36.5
Arg. 142	Arg.	13 40 36	56 31 08.4
Gr. 2056	R. C.	13 46 10	59 09 32.1
	R.	. . .	30.6
	Rob.	. . .	31.4
	Ad.	. . .	30.7
Gr. 2057	R. C.	13 47 51	40 57 18.8
	R.	. . .	16.6
	Rob.	. . .	19.0
	Ad.	. . .	17.8
Gr. 2058	R. C.	13 48 08	42 48 03.0
	Rob.	. . .	03.7
	Ad.	. . .	03.0
XIII 289	T.	13 57 14	46 21 35.6
	H.	. . .	36.6
	Rob.	. . .	36.3
	Ad.	. . .	36.1
Gr. 2077	R. C.	14 02 16	42 41 41.3
	R.	. . .	39.4
	Rob.	. . .	41.5
	Ad.	. . .	40.4
Gr. 2084	R. C	14 07 04	59 08 23.0
	Pulc.	. . .	22.5
	Ad.	. . .	22.6
Gr. 2082	R. C.	14 04 54	59 55 49.0
	Rob.	. . .	50.2
	Bonn	. . .	48.3*
	Ad.	. . .	49.0
Gr. 2102	R. C.	14 14 47	55 26 22.2
	R.	. . .	24.0*
	Rob.	. . .	21.4
	Wn.	. . .	21.3
	Ad.	. . .	21.6
Gr. 2157	R. C.	14 45 29	51 53 34.1
	R.	. . .	35.0*
	Wn.	. . .	33.9*
	Ad.	. . .	33.9
Gr. 2202	R. C.	15 08 41	49 02 51.1
	Ay., 1845	. . .	50.7*
	Ay., 1860	. . .	51.9
	Ad.	. . .	51.1
XV 39	T.	15 12 02	51 24 06.2
	R. C.	. . .	06.6
	Rob.	. . .	06.2
	Bonn	. . .	07.3*
	Ad.	. . .	06.3
Arg. 164	Arg.	15 15 30	41 25 50.2
Gr. 2227	T.	15 19 48	37 47 07.7
	R.	. . .	08.9
	R. C.	. . .	11.7
	Rob.	. . .	09.7
	Ay., 1845	. . .	10.6
	Ay., 1850	. . .	10.6
	Wn.	. . .	11.4
	Ad.	. . .	13.1

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
XV 81	T.	15 21 24	34 46 17.4
	Rob.	. . .	19.2
	H.	. . .	17.2
	Ad.	. . .	18.0
Gr. 2232	R.C.	15 21 42	44 44 25.4
	R.	. . .	25.6
	Wn.	. . .	25.8
	Arg.	. . .	26.8*
	Ad.	. . .	25.6
Gr. 2237	R.	15 23 52	39 09 23.1
	R.C.	. . .	23.6
	Ay., 1845	. . .	23.8
	Ad.	. . .	23.5
Arg. 167	Arg.	15 25 59	57 52 09.0
R. C. 3416	R.C.	15 31 37	40 12 54.5
	Wn.	. . .	53.8
	Ad.	. . .	54.0
Gr. 2260	H.	15 34 20	54 55 07.9
	R.C.	. . .	07.8
	Ad.	. . .	07.8
R. C. 3453	H.	15 43 36	55 51 28.8
	R.C.	. . .	27.3
	Ad.	. . .	28.0
Gr. 2325	T.	16 12 44	53 32 58.3
	Rob.	. . .	57.7
	R.C.	. . .	56.1
	Ad.	. . .	57.1
Gr. 2351	H.	16 25 32	51 40 55.1
	R.C.	. . .	53.7
	Ad.	. . .	54.3
Gr. 2354	Arg.	16 26 44	48 13 56.9
R. C. 3604	T.	16 43 04	55 32 26.9
	R.C.	. . .	28.3
	R.C.	. . .	26.6
	Ad.	. . .	27.2
Gr. 2389	Arg.	16 49 35	43 02 28.5
Arg. 185	Arg.	16 59 05	47 13 47.8
Gr. 2431	H.	17 14 11	38 56 25.1
	R.C.	. . .	23.8
	Ad.	. . .	24.4
Gr. 2436	H.	17 19 50	38 41 48.0
	R.C.	. . .	45.8
	Ad.	. . .	46.8
Gr. 2464	H.	17 41 44	38 55 56.1*
	R.C.	. . .	54.9
	Ad.	. . .	55.2
Gr. 2473	T.	17 47 10	40 06 16.3
	R.	. . .	16.8
	R.C.	. . .	17.0
	Rob.	. . .	19.4
	Ad.	. . .	17.3
Gr. 2481	R.	17 48 33	46 40 40.4
	H.	. . .	41.5
	R.C.	. . .	39.9
	Ad.	. . .	40.3
Gr. 2494	H.	17 55 18	45 29 03.0
	R.C.	. . .	02.3
	Ad.	. . .	02.5
XVII 347	T.	17 56 02	33 13 09.2
	H.	. . .	11.7
	Rob.	. . .	[24.7]
	Ad.	. . .	10.8
R.C. 3820	R.C.	17 57 47	48 28 00.7
	Ay., 1850	. . .	01.3*
	Ad.	. . .	00.6
Rümker 6227	R.	18 00 36	46 25 59.8
	A.Z.	. . .	26 01.3*
	H.C.	. . .	26 03.2
	Ad.	. . .	26 01.1
Rümker 6264	R.	18 03 09	46 15 31.9*
	A.Z.	. . .	33.4*
	H.C.	. . .	31.2
	Ad.	. . .	31.6
Rümker 6308	R.	18 07 11	33 25 04.8
	H.	. . .	04.6
	Ad.	. . .	04.8
Gr. 2536	R.C.	18 11 45	49 06 51.5
	R.	. . .	50.3
	Ay., 1860	. . .	51.8
	Ad.	. . .	51.2
Gr. 2563	R.C.	18 20 19	42 24 02.2
	R.	. . .	03.5*
	Ay., 1860	. . .	01.0*
	Ay., 1864	. . .	00.7
	Ad.	. . .	01.6
Arg. LXIII	H.	18 28 03	30 27 41.2
	Bonn	. . .	42.6
	Ad.	. . .	42.4
Gr. 2597	R.C.	18 28 47	45 40 53.7
	Rob.	. . .	55.8
	Ad.	. . .	54.5
Gr. 2603	T.	18 30 16	46 07 18.5
	R.C.	. . .	17.6
	Rob.	. . .	19.5*
	Ad.	. . .	18.2
Gr. 2615	R.C.	18 32 05	42 57 11.0
	Rob.	. . .	10.4
	Ad.	. . .	10.4
Gr. 2632	T.	18 36 00	52 13 49.5
	St.	. . .	52.6
	R.	. . .	53.1*
	Rob.	. . .	51.4
	R.C.	. . .	52.4
	Ad.	. . .	51.4
Gr. 2644	R.C.	18 39 06	39 10 32.5
	R.	. . .	32.7
	Rob.	. . .	34.0*
	Ad.	. . .	32.7
Gr. 2646	R.C.	18 39 15	44 48 07.8
	R.	. . .	11.0
	Rob.	. . .	10.6
	Ay., 1840	. . .	06.7
	Ay., 1845	. . .	07.2
	Ay., 1850	. . .	07.6
	Ad.	. . .	08.2
Gr. 2659	R.C.	18 40 49	53 44 40.7
	Rob.	. . .	41.2
	Ad.	. . .	40.6
Gr. 2669	R.	18 43 26	46 10 44.4
	A.Z.	. . .	44.4*
	R.C.	. . .	44.0
	Ad.	. . .	43.9
Gr. 2687	R.C.	18 46 56	43 48 33.6
	Rob.	. . .	34.2
	Ad.	. . .	33.6

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 2693	H.	18 48 06	41 13 56.9
	R.C.	. . .	56.3
	Rob.	. . .	56.2
	Ad.	. . .	56.2
Gr. 2701	R.C.	18 49 35	42 44 51.9
	Ay., 1860	. . .	50.4
	Ay., 1864	. . .	50.8
	Ad.	. . .	51.0
Gr. 2770	T.	19 03 32	38 43 52.4
	R.	. . .	50.2*
	Rob.	. . .	53.6
	R.C.	. . .	52.6
	Ad.	. . .	52.4
Gr. 2774	T.	19 03 59	38 57 22.7
	R.C.	. . .	24.6
	Rob.	. . .	26.5
	Ad.	. . .	24.6
R. 7219	R.	19 07 30	58 04 03.4
	A.Z.	. . .	02.6
	H.C.	. . .	03.8
	Ad.	. . .	02.9
Gr. 2829	R.	19 18 34	52 08 12.2
	R.C.	. . .	12.7
	Ad.	. . .	12.1
Gr. 2833	R.	19 19 09	57 31 35.2
	H.	. . .	35.1
	R.C.	. . .	34.7
	Ad.	. . .	34.5
Gr. 2844	H.	19 22 08	44 41 05.1
	R.C.	. . .	04.4
	Ad.	. . .	04.6
Gr. 2845	H.	19 22 12	44 45 47.7
	R.C.	. . .	46.1
	Ad.	. . .	46.8
XIX 193	T.	19 28 35	55 27 57.4
	R.C.	. . .	58.8
	Rob.	. . .	59.5
	Ad.	. . .	58.4
Gr. 2872	Ay., 1840	19 28 45	54 59 31.9
	R.C.	. . .	31.7
	H.C.	. . .	33.4
	Ad.	. . .	34.9
R. C. 4379	R.	19 31 12	59 53 10.0
	Ay., 1840	. . .	09.8
	R.C.	. . .	10.4
	Ad.	. . .	09.5
Gr. 2912	H.	19 37 41	39 57 34.1
	R.C.	. . .	33.4
	Ad.	. . .	33.6
Gr. 2946	Ay., 1845	19 41 54	56 36 09.4
	R.C.	. . .	10.4
	H.C.	. . .	08.1
	Ad.	. . .	06.7
χ Cygni	H.	19 45 46	32 35 58.6
	Bonn	. . .	57.5
	Ad.	. . .	58.0
Gr. 2957	R.C.	19 47 35	47 03 23.5
	Rob.	. . .	23.9
	Ad.	. . .	23.4
Gr. 2978	R.C.	19 50 44	57 50 22.9
	Rob.	. . .	21.4
	Ad.	. . .	21.8
R. C. 4507	R.C.	19 51 20	39 50 31.3
	H.C.	. . .	30.1
	Ad.	. . .	30.6

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 2977	R.C.	19 51 21	47 12 37.0
	Rob.	. . .	38.6*
	Ad.	. . .	37.2
R. C. 4521	R.C.	19 52 36	59 16 11.0
	Pulc.	. . .	11.5
	Ad.	. . .	11.3
XIX 370	H.	19 53 36	56 21 05.7
	Rob.	. . .	06.5
	Ad.	. . .	05.8
XIX 391	R.C.	19 56 27	57 28 02.5
Gr. 3011	Rob.	. . .	03.2
	Ad.	. . .	02.6
Gr. 3013	R.C.	19 57 31	40 30 42.7
	Rob.	. . .	41.0*
	Ad.	. . .	41.8
Gr. 3014	R.C.	19 57 42	43 46 21.0
	Rob.	. . .	23.4*
	Ad.	. . .	21.8
XX 63	T.	20 09 43	46 19 59.5
R. C. 4661	R.C.	. . .	59.9
	Ay., 1845	. . .	20 01.0
	Ay., 1860	. . .	02.5*
	Ay., 1864	. . .	19 59.7*
	Ad.	. . .	20 00.3
Gr. 3110	H.	20 11 57	45 11 52.1
	R.C.	. . .	52.4
	Ad.	. . .	52.2
Gr. 3142	H.	20 15 19	55 00 25.6
	R.C.	. . .	24.1
	Ay., 1845	. . .	26.9*
	Ad.	. . .	25.1
Gr. 3215	R.C.	20 28 27	41 27 13.8
	H.C.	. . .	20.2
	Ad.	. . .	25.7
Gr. 3220	R.C.	20 29 21	41 20 54.0
	H.C.	. . .	50.7
	Ad.	. . .	50.4
R. C. 4871	R.C.	20 30 28	41 17 15.8
	H.C.	. . .	16.3
	Bonn	. . .	15.9*
	Ad.	. . .	15.9
Gr. 3243	R.C.	20 33 33	42 24 03.2
	H.C.	. . .	05.4
	Ad.	. . .	08.2
Gr. 3311	R.C.	20 47 20	51 55 36.9
	Rob.	. . .	37.4
	Ad.	. . .	36.8
Gr. 3328	R.C.	20 49 25	58 10 59.7
	Rob.	. . .	11 00.5
	Ad.	. . .	10 59.7
Gr. 3327	R.C.	20 49 50	49 03 33.1
	Rob.	. . .	36.3
	Ay., 1860	. . .	32.2
	Ad.	. . .	33.2
XX 401	T.	20 51 32	43 53 42.0*
	Rob.	. . .	41.7*
	H.C.	. . .	42.4*
	Bonn	. . .	43.3
	Ad.	. . .	42.6

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 3387	R.C.	21 00 16	54 44 00.8
	Rob.	. . .	02.7
	Ad.	. . .	01.4
Fed. 3689	A.Z.	21 01 33	59 45 33.5*
	Ay., 1864	. . .	31.9
	Ad.	. . .	32.3
R. C. 5732	A.Z.	21 06 11	47 10 56.2
	R.C.	. . .	56.7
	H. C.	. . .	56.7
	Ad.	. . .	56.5
Gr. 3424	H.	21 12 39	42 09 37.2
	R.C.	. . .	38.8
	Ad.	. . .	37.9
Gr. 3447	R.C.	21 18 09	48 57 28.0
	Ay., 1860	. . .	27.5
	Ad.	. . .	27.6
Pi. 159	T.	21 23 19	46 01 03.2
	R.C.	. . .	03.0
	Rob.	. . .	03.6
	Ay., 1845	. . .	02.9
	Ad.	. . .	03.0
R. C. 5252	A.Z.	21 25 00	45 52 42.7
	Ay., 1845	. . .	44.7
	R.C.	. . .	44.5
	Ad.	. . .	43.8
Arg. +50°, 3382	H.C.	21 32 54	50 30 09.1
	Bonn	. . .	10.6*
	Ad.	. . .	09.6
Gr. 3524	R.C.	21 34 00	49 13 56.5
	Ay., 1860	. . .	55.1
	Ad.	. . .	55.7
Gr. 3533	A.Z.	21 34 59	51 47 50.0
	R.C.	. . .	50.4
	H.C.	. . .	48.5*
	Ad.	. . .	49.7
Gr. 3554	A.Z.	21 37 44	51 43 16.7
	R.C.	. . .	16.7
	H. C.	. . .	17.5
	Ad.	. . .	16.9
Gr. 3550	R.C.	21 36 51	59 11 1.7
	Pulc.	. . .	1.8
	Ad.	. . .	1.7
Gr. 3556	R.C.	21 38 06	49 01 47.2
	Ay., 1860	. . .	46.8
	Ad.	. . .	46.9
R. 9430	Ay., 1840	21 38 26	37 44 01.2
	R.	. . .	43 59.0*
	Rob.	. . .	44 03.1
	H. C.	. . .	01.5
	Ad.	. . .	01.5
R. C. 5408	R.C.	21 44 35	40 33 59.4
	H.	. . .	34 00 4
	Ad.	. . .	33 59.8
Gr. 3601	T.	21 48 13	54 27 08.0
	R.C.	. . .	06.2
	Rob.	. . .	09.2
	Ad.	. . .	07.6
R. C. 5476	R.C.	21 52 11	45 59 52.2
	Bonn	. . .	53.4*
	Ad.	. . .	52.5
R. C. 5483	R.C.	21 52 30	59 12 04.5
	Pulc.	. . .	03.9
	Ad.	. . .	04.1
Gr. 3680	R.C.	22 00 57	47 37 24.1
	Bonn	. . .	25.4
	Leid.	. . .	25.5
	Ad.	. . .	25.2
Gr. 3715	R.	22 07 38	58 27 49.8
	Rob.	. . .	52.1
	A.Z.	. . .	49.5
	R.C.	. . .	50.8
	Ad.	. . .	50.2
Gr. 3717	H.	22 08 41	44 49 17.2
	R.C.	. . .	15.8
	Ad.	. . .	16.4
R. C. 5653	R.C.	22 15 06	59 31 13.3
	Pulc.	. . .	13.7
	Ad.	. . .	13.5
Gr. 3750	R.C.	22 16 30	41 26 54.8
	Rob.	. . .	54.8
	Ad.	. . .	54.5
Gr. 3771	R.C.	22 20 55	53 10 51.0
	Ay., 1845	. . .	52.5
	Ad.	. . .	51.4
Gr. 3772	R.C.	22 21 02	53 18 32.2
	Ay., 1845	. . .	33.2
	Ad.	. . .	32.3
L. 43886	H.	22 21 58	39 10 25.4
	H. C.	. . .	24.6
	Ad.	. . .	25.0
XXII 113	T.	22 22 03	31 12 05.0
	H.	. . .	07.3
	Rob.	. . .	06.3
	Ad.	. . .	06.2
Gr. 3779	A.Z.	22 22 43	50 51 20.8
	R.C.	. . .	22.0
	Rob.	. . .	20.0
	Ad.	. . .	20.7
Gr. 3780	R.C.	22 22 54	50 56 18.6
	Rob.	. . .	18.6*
	Ad.	. . .	18.3
Gr. 3843	R.C.	22 33 18	43 39 41.8
	Rob.	. . .	42.1
	Ay., 1860	. . .	42.4
	Ad.	. . .	41.9
Gr. 3849	R.C.	22 34 31	40 39 45.3
	Rob.	. . .	48.2
	Ad.	. . .	46.5
Gr. 3867	T.	22 38 10	43 53 09.1§
	R.C.	. . .	52 33.1
	Rob.	. . .	31.3
	Ad.	. . .	31.9
Gr. 3873	R.C.	22 39 13	38 32 43.9
	Bonn	. . .	46.2
	Ad.	. . .	45.0
Gr. 3877	R.C.	22 39 37	51 51 37.2
	Rob.	. . .	36.5
	Ad.	. . .	36.5
Gr. 3901	Ay., 1840	22 44 48	50 00 55.4
	R.C.	. . .	55.0
	Ad.	. . .	55.2
Ll. 44750	A.Z.	22 45 47	48 04 15.4
	H.C.	. . .	14.6
	Ad.	. . .	14.9

§ Probably should be 52′ 31″.6, and is 2 years' precession in error.

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 3913	Ay., 1840	22 47 15	50 02 30.2
	R. C.	. . .	29.1
	Ad.	. . .	29.3
Gr. 3936	T.	22 51 54	38 38 28.5
	H.	. . .	28.5
	R. C.	. . .	27.8
	Rob.	. . .	27.5
	Ad.	. . .	28.1
Gr. 3947	R. C.	22 54 55	44 42 16.2
	Ay., 1845	. . .	16.5
	Ad.	. . .	16.2
Gr. 3964	R. C.	22 57 14	59 10 51.0
	Rob.	. . .	51.3
	Pulc.	. . .	49.7
	Ad.	. . .	50.3
Gr. 3965	R. C.	22 57 21	54 33 48.8
	Rob.	. . .	49.6
	Ad.	. . .	48.8
Gr. 3990	R. C.	23 01 54	59 03 06.0
	Pulc.	. . .	05.7
	Ad.	. . .	05.7
Gr. 4017	R. C.	23 08 32	49 56 15.9
	Rob.	. . .	17.5
	Ad.	. . .	16.4
Gr. 4020	R. C.	23 09 13	45 50 39.3
	Rob.	. . .	38.9
	Ad.	. . .	38.8
Gr. 4043	R. C.	23 14 50	59 35 26.5
	Pulc.	. . .	27.1
	Ad.	. . .	26.8
Gr. 4052	R. C.	23 18 09	40 55 37.5
	R.	. . .	35.8*
	H. C.	. . .	37.4
	Ad.	. . .	37.0
Gr. 4074	R. C.	23 23 28	45 46 37.7
	Rob.	. . .	37.2
	Ad.	. . .	37.1
Gr. 4083	T.	23 25 48	43 22 56.7
	R. C.	. . .	57.0§
	R.	. . .	55.4
	Rob.	. . .	56.5
	Ad.	. . .	56.4
Gr. 4110	R. C.	23 32 27	57 57 45.4
	Rob.	. . .	46.2
	Ad.	. . .	45.4
Gr. 4125	R. C.	23 35 21	48 49 12.2
	R.	. . .	10.9*
	Rob.	. . .	14.0
	Ad.	. . .	12.2
Arg. 246	Arg.	23 37 20	57 22 12.1
Gr. 4136	T.	23 38 43	55 06 21.1
	R. C.	. . .	21.3
	Rob.	. . .	21.3
	Ad.	. . .	21.0
Gr. 4139	R. C.	23 41 21	46 08 18.1
	Rob.	. . .	19.2
	Ad.	. . .	18.3
Gr. 4172	H.	23 50 43	41 57 45.2*
	R. C.	. . .	45.3
	Rob.	. . .	45.2
	Ad.	. . .	45.0
Gr. 4190	T.	23 52 54	49 50 00.8
	R. C.	. . .	00.6
	Ay., 1845	. . .	03.0
	Ad.	. . .	01.2
R. C. 6254	R. C.	23 54 11	58 51 51.9
	Pulc.	. . .	52.3
	Ad.	. . .	52.1
Gr. 4207	R. C.	23 56 44	42 03 07.8
	Ay., 1845	. . .	07.7
	Ay., 1864	. . .	07.6
	Ad.	. . .	07.7
Gr. 4216	R. C.	23 57 45	49 10 27.4
	Ay., 1860	. . .	27.5
	Ad.	. . .	27.4
Gr. 4237	R.	0 01 11	39 27 11.2
	R. C.	. . .	10.7
	Rob.	. . .	11.4
	Ad.	. . .	10.8
Gr. 4243	R. C.	0 02 59	45 41 34.3
	Rob.	. . .	34.1
	Ad.	. . .	33.9
Gr. 2	R. C.	0 03 46	51 33 34.6
	Rob.	. . .	36.6*
	Ad.	. . .	35.0
Gr. 9	R. C.	0 05 27	47 27 22.4
	Rob.	. . .	22.7
	Ad.	. . .	22.2
Gr. 13	R. C.	0 06 02	44 00 45.9
	Rob.	. . .	45.3
	Ad.	. . .	45.2
Gr. 24	T.	0 08 02	40 20 09.9
	R. C.	. . .	11.1
	Rob.	. . .	12.2
	Ad.	. . .	11.0
Gr. 55	R. C.	0 16 04	53 57 07.1
	Rob.	. . .	08.0
	R. 2	. . .	06.9
	Ad.	. . .	07.1
R. C. 93	R. C.	0 19 24	56 05 18.1
	Rob.	. . .	18.3
	Ad.	. . .	17.8
Gr. 64	R. C.	0 20 28	49 17 37.6
	Ay., 1860	. . .	36.4
	R. 2	. . .	38.3
	Ad.	. . .	37.4
Gr. 74	T.	0 24 29	43 15 21.9
	Ay., 1840	. . .	21.5
	R. C.	. . .	21.9
	Ad.	. . .	21.9
Gr. 86	R. C.	0 25 53	53 25 52.0
	Ay., 1850	. . .	52.9*
	Ad.	. . .	52.0

§ Corrected by Argelander.

Number.	Authority.	Right Ascension, 1875.0.	Declination, 1875.0.
		h. m. s.	° ′ ″
Gr. 96 . . .	T.	0 28 32	53 30 49.5
	R. C. . . .	. . .	50.5
	Rob.	. . .	51.6
	Ay., 1860 . .	. . .	50.2
	Ad.	. . .	50.3
Gr. 108 . . .	R. C. . . .	0 31 25	59 38 12.8
	Rob.	. . .	12.6
	Pulc.	. . .	12.8
	Ad.	. . .	12.6
Gr. 125 . . .	R. C. . . .	0 35 38	51 39 05.4
	Rob.	. . .	04.9
	Ad.	. . .	04.8
Gr. 142 . . .	T.	0 40 55	50 45 42.9
	R. C. . . .	. . .	45.2
	Rob.	. . .	43.5
	R. 2	. . .	44.3*
	Ad.	. . .	43.8
Gr. 241 . . .	T.	0 59 56	48 53 10.7
	R. C. . . .	. . .	10.5
	Ay., 1860 . .	. . .	11.0
	Ad.	. . .	10.7
Gr. 294 . . .	R. C. . . .	1 13 02	42 51 09.0
	Rob.	. . .	09.3
	Ad.	. . .	08.8
Gr. 297 . . .	R. C. . . .	1 14 22	49 27 58.6
	Rob.	. . .	58.2
	Ad.	. . .	58.0
T. 56 . . .	T.	1 14 56	42 55 44.2
Gr. 299 . . .	R. C. . . .	. . .	44.8
	Rob.	. . .	44.9
	Ad.	. . .	44.6
Gr. 317 . . .	R. C. . . .	1 20 51	43§ 24 01.3
	Rob.	. . .	01.3
	Ad.	. . .	01.0
Gr. 357 . . .	T.	1 32 17	53 13 59.4
	R. C. . . .	. . .	58.6
	Rob.	. . .	59.4
	Ad.	. . .	58.9
Gr. 374 . . .	R. C. . . .	1 36 49	45 30 40.1
	Rob.	. . .	40.2
	Ad.	. . .	39.8
Gr. 400 . . .	R. C. . . .	1 47 08	40 02 25.1
	Rob.	. . .	24.4
	Ad.	. . .	24.4

§ Robinson has 45°, but 43° is correct.

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